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IIT-Delhi alumni creates first map of neural circuitry

Kourtesya Srivha, TNN | Dec 3, 2013, 05:26 AM IST



The brain is a roadmap of neural pathways linking many networks that help us process information and react accordingly.

LONDON: **Women** have sharper memory while men coordinate things better.

An Indian Institute of Technology-Delhi alumni has created the first ever **map of neural circuitry** inside a human brain which has confirms that women's brains are designed for social skills and memory while men's are for perception and co-ordination.

However, there is one field in which women beat men hollow - multitasking, finds the study that look at brain connectivity.

A new brain connectivity study from Penn Medicine published on Monday has found striking differences in the neural wiring of men and women that's lending credence to some commonly-held beliefs about their behaviour.

In one of the largest studies looking at the "connectomes" of the sexes, **Ragini Verma**, an associate professor in the department of radiology at the Perelman School of Medicine at the **University of Pennsylvania** found greater neural connectivity from front to back and within one hemisphere in males, suggesting their brains are structured to facilitate connectivity between perception and coordinated action.

In contrast, in females, the wiring goes between the left and right hemispheres, suggesting that they facilitate communication between the analytical and intuition.

Ragini who completed her masters in mathematics and computer applications followed by a PhD in computer vision and mathematics from IIT Delhi says "These maps show us a stark difference — and complementarity — in the architecture of the human brain that helps provide a potential neural basis as to why men excel at certain tasks, and women at others".

According to Verma, on average, men are more likely better at learning and performing a single task at hand, like cycling or navigating directions, whereas women have superior memory and social cognition skills, making them more equipped for multitasking and creating solutions that work for a group.

In the study, the researchers found that females displayed greater connectivity in the supratentorial region, which contains the cerebrum, the largest part of the brain, between the left and right hemispheres. Males, on the other hand, displayed greater connectivity within each hemisphere.

By contrast, the opposite prevailed in the cerebellum, the part of the brain that plays a major role in motor control, where males displayed greater inter-hemispheric connectivity and females displayed greater intra-hemispheric connectivity.

These connections likely give men an efficient system for coordinated action, where the cerebellum, which involves perception, and the front of the brain, which involves action, are bridged together, according to the authors.

The female connections likely facilitate integration of the analytic and sequential processing modes of the left hemisphere with the spatial, intuitive information processing modes of the right side.

The authors observed only a few gender differences in the connectivity in children younger than 13 years, but the differences were more pronounced in adolescents aged 14 to 17 years and young adults older than 17.

Past studies have shown sex differences in the brain, but the neural wiring connecting regions across the whole brain that have been tied to such cognitive skills has never been fully shown in a large population.

In the study, Verma and colleagues investigated the gender-specific differences in brain connectivity during the course of development in 949 individuals (521 females and 428 males) aged 8 to 22 years using diffusion tensor imaging (DTI).

DTI is water-based imaging technique that can trace and highlight the fibre **pathways** connecting the different regions of the brain, laying the foundation for a structural connectome or network of the whole brain.

The brain is a roadmap of neural pathways linking many **networks** that help us process information and react accordingly, with behaviour controlled by several of these sub-networks working in conjunction.

The findings were also consistent with a Penn behavior study, of which this imaging study was a subset of, that demonstrated pronounced sexual differences.

Females outperformed males on attention, word and face memory, and social cognition tests. Males performed better on spatial processing and sensorimotor speed. "It's quite striking how complementary the brains of women and men really are. Detailed connectome maps of the brain will not only help us better understand the differences between how men and women think, but it will also give us more insight into the **roots** of neurological disorders, which are often sex related".

Next steps are to quantify how an individual's neural connections are different from the population; identify which neural connections are gender specific and common in both and to see if findings from functional magnetic resonance imaging (fMRI) studies fall in line with the connectome data

Amar Ujala ND 12/3/2013

P-5

आईआईटी में साइबर सुरक्षा संबंधी ट्रेनिंग

नई दिल्ली (ब्यूरो)। वेब पर सुरक्षा खतरों की बढ़ती घटनाओं को देखते हुए आईआईटी दिल्ली साइबर सुरक्षा में क्षमता निर्माण के लिए एक सेंटर शुरू करने की तैयारी कर रहा है। इस सेंटर में प्रशिक्षण के साथ ही कोर्स भी शुरू किए जा जाएंगे। आईआईटी इस सेंटर का नाम साइबर सिस्टम एंड इंफारमेशन इंश्योरेंस रख रहा है। सेंटर को शुरू करने को फरवरी 2014 में नेब्रास्का विश्वविद्यालय के साथ करार किया जाएगा।

Role Models: IIT Grads Reject Oracle's Crore & Settle for Lakhs

Better profile reason for opting out of lucrative offers

DEVINA SENGUPTA & SREERADHA D BASU
MUMBAI | KOLKATA

Two 21-year-old, soon-to-graduate IIT-Kanpur engineers stunned tech major Oracle by turning down offers of ₹1.31 crore (\$210,000) each, a top person involved in the process told **ET**. Both have opted for other companies that offered lesser pay, but gave roles the students liked better.

They may have opted for Google, which offered ₹68.34 lakh (\$110,000), or Tower Research Capital, a US-based financial services firm, which rolled out a package of ₹74.55 lakh (\$120,000). "This just shows that not everyone is running after money," a placement team member, who did not wish to be named, said. "These students are mature; they know money does not reflect everything."

The rapidly unfolding drama on Day 2 of the campus placement season at IITs threw more surprises. Zomato, an online food and restaurant listings start-up, offered the highest salary on Day 2 at IIT Bombay, more than what marquee brands, including Samsung India R&D,

Citicorp, Xerox Research, Adobe and American Express, were willing to pay.

Zomato hired four students from IIT-Delhi and Bombay at a uniform package of ₹26 lakh each. Forty-one companies were present at IIT-Bombay. On Monday, **ET** had reported that Oracle had made crore-plus offers at IIT-Madras.

At Kanpur, Oracle had shortlisted three students from computer science background on Sunday and four in the waiting list. Two from the waiting list have since been hired to make up for the dropouts, a placement team member at IIT-Kanpur said. Oracle has also hired students from IIT-Madras and

Bombay, all at similar crore-plus salaries. A Google spokesperson said the company was hiring from India for software engineer profile for their US, UK, Australia and India locations, but declined to comment on compensation.

170 offers at IIT Kharagpur ►► 18

Season of Plenty

₹26 LAKH

Zomato offered to 4 students from IIT-Delhi and IIT-Bombay



Institute	Cos Hiring
IIT-Bombay	Samsung with India R&D profile, Oracle India, Xerox Research, Adobe and American Express
IIT-Kharagpur	Goldman Sachs, Credit Suisse, Opera Solutions, Google Inc, Schlumberger Asia Services
IIT-Madras	LinkedIn, Citicorp Services India, Intel, Eaton Technologies
(93 offers on Day 1; 48 offers on Day 2)	
IIT-Roorkee	80 offers on Day 1; 8-10 on Day 2
IIT-Guwahati	Moojic and Capillary Technologies

170 Offers at IIT Kharagpur

►► From Page 1

Companies hired aggressively across all IITs.

“IIT Kharagpur believes in building relationships and companies have responded enthusiastically, hiring the highest number of candidates on Day 1,” says SK Barai, professor-in-charge, training and placement, IIT Kharagpur. Twenty companies, including Goldman Sachs, Credit Suisse, Opera Solutions, Google Inc and Schlumberger Asia Services, rolled out 170 offers (including 75 PPOs) at IIT Kharagpur. Real estate portal Housing.com was among the recruiters from the start-up space. More startups are expected.

On Day 2 at IIT Madras, social networking sites like LinkedIn picked up 5 students, Citicorp Services India hired 10, Intel Technology recruited 6 and Eaton Technologies made 10 offers.

“We received 93 offers on the first day, and till the end of session 1 on day 2, there have been 48 offers. That’s a total of 141 offers, not including PPOs,” Lt Col (Retd.) Jayakumar, deputy registrar (students and placement), IIT Madras, said.

On Day 2 at IIT Madras, social networking site LinkedIn picked up five students, Citicorp Services India hired 10

IIT Roorkee received 80 offers on Day 1 and around 8-10 companies hired on the second day of placements. At IIT Guwahati, some 70 students have been selected by 15 companies, including Microsoft, Google, Tata Motors, Morgan Stanley, Flipkart, ITC

and Dell.

IIT Guwahati also saw average salaries of ₹24 lakh, Natesan Srinivasan, faculty-in-charge, training & placement, IIT said.

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Big firms bulk hire at IITs

Samsung Hires 14 For Offices In US, Korea, Offers \$135k Package

Hemali Chhappia &
Yogita Rao | TNN

Mumbai: Post-midnight developments at the premier IIT-Bombay campus, early on Monday, left several students thrilled. High-profile companies not just offered seriously high pay packets, they also went in for bulk hires on campus. A similar situation played out at other IITs in the country as well on the first two days of placements.

Samsung Korea, for one, hired around 14 candidates from IIT-B—the highest so far. Google picked up around 10 students.

Samsung Korea, which made an offer of \$135,000 on campus, excluding performance-based incentives, hired 14 candidates for both its US and Korea offices. Last year, it had hired only one candidate. Google hired three students for its California office and seven for India. Microsoft recruited nine students

WHAT'S THE OFFER

► Companies that made bulk offers* at IIT-Bombay | **Samsung Korea, Google, Microsoft, WorldQuant, Goldman Sach, Mckinsey and Bain** (*At least more than three placement offers)



► Day 1 of campus placement offers at some IITs: IIT-Bombay 182 | IIT-Kanpur 125 | IIT-Kharagpur 170

► Some of the highest packages offered to students:

Oracle | **\$210,000**
Samsung Korea | **\$150,000**
Google, Microsoft | **\$100,000**
Blackstone | **₹35 lakh (domestic)**

at the IIT-B campus placements—five for US and four for India.

As most of these companies made bulk offers, by the end of the first day, the offers totalled around 180, up from last year's 173. The second slot on Day Two will go on till midnight of Monday.

“By the end of the first day, more than 150 unique offers were made. Of these, 75% were for international postings,” said Avijit Chat-

terjee, professor-in-charge of placements at the institute.

In the management consultancy sector, the average gross salary is around Rs 17 lakh.

Deutsche Bank hired 10 students, and Goldman Sach went for 16 from the Powai campus. The average gross salary in the consulting sector was around Rs 12.5 lakh. Boston Consultancy, Mckinsey and Bain picked up max-

imum students in this sector. In the oil and gas sector, Rs 15 lakh was the average gross salary offered to students.

Oracle, so far the highest payer at the institute, has made an offer of \$211,000.

Elsewhere, at IIT-Madras, a student bagged the Oracle offer with the same package. Some firms that made bulk offers include Intel Technology with six, Nomura Structured Finance Services with five, Eaton Technologies and Citicorp Services India with 10 each.

At IIT-Kanpur on Sunday, students accepted around 125 offers from 20 companies. On Monday, more than 50 students accepted offers. As many as 225 companies are scheduled to interview students this year compared with 170 last year.

The highest package, so far, at Kharagpur was \$125,000.

For the full report, log on to www.timesofindia.com

182 students offered jobs on Day One of placements at IIT-Bombay

360 APPLICANTS Engg and information technology top the list, average salaries offered rose by 10-15%

HT Correspondent

htmetro@hindustantimes.com

MUMBAI: More than 180 students from the Indian Institute of Technology- Bombay (IIT-B) received job offers at the end of Day One of campus placements. According to sources, there has been a 10% to 15% rise in the average salaries offered at the end of the first day.

Around 360 students out of the 1,600 studying on the campus had participated in the drive on the first day which saw companies such as technology major Microsoft hire a bulk of the candidates. Google stuck to its quota of five to ten candidates while other big names such as Goldman Sachs, Boston Consulting Group, Morgan Stanley, IBM and Schlumberger also made offers.

While the placement sessions began at 8am on Sunday, they continued well into the night.

The ongoing placements, a part of the first phase, began on Sunday and will end on December 18.

While the offers received by the students on Day Two will be compiled on Tuesday morning, it brought good tidings for students. The number of recruiting firms increased from 32 on Sunday to 40 on Monday allaying anxieties of students. Major companies such as Airbus, Amazon, Samsung

PLACEMENTS IDENTICAL TO LAST YEAR

230
companies registered for first phase, 32 slotted on day one, this year

240
companies registered for first phase, 35 slotted on day one, last year

1,600
students will sit for placements this year

182
have already received job offers

DAY ONE
360 Students appeared for placements
182 Students received job offers
32 Number of participating firms
Technology majors such as Google, Microsoft and IBM, others like Goldman Sachs, Boston Consulting Group, Shell, Morgan Stanley, IBM, Schlumberger, Sony (Japan), Samsung (Korea), LinkedIn, Deutsche Bank, ITC

DAY TWO
360 Students appearing for placements
40 Number of participating firms
The number of students who received job offers is yet to be announced
Airbus, Amazon, Samsung (India), Oracle and Axis Bank were scheduled to recruit students on Monday.



THERE WAS AN APPREHENSION SURROUNDING PLACEMENTS THIS YEAR BECAUSE OF THE ECONOMIC DOWNTURN, BUT WE ARE SEEING A GOOD TURNOUT OF FIRMS THIS YEAR AS WELL.

AVIJEET CHATTERJEE, professor in-charge of placements at IIT-B

(India), Oracle and Axis Bank among others were part of the companies participating in placements on the second day.

"There was an apprehension surrounding placements this year because of the economic downturn, but we are seeing a good turnout of firms this year

as well. This has lifted the spirits of our students," said Avijeet Chatterjee, professor in-charge of placements at IIT-B.

Chatterjee added that so far, the placements have been identical to last year: There were 230 companies registered for the first phase while we had around 240

companies last year.

Even the types of companies recruiting this year were similar to last year, he added.

Companies from the field of engineering technology and information technology have been dominant. Some of the recruiters are also from diverse

fields such as consultancies and investment banks.

"Goldman Sachs, Bangalore, offered me a package of Rs30 lakh per annum. I am apprehensive about relocating but I have decided to take up the offer," said a student, on condition of anonymity.

IIT प्लेसमेंट्स : लौटा करोड़ ₹ का करिश्माई पैकेज

■ श्रीराधा डी बसु/देविना सेनगुप्ता, मुंबई/कोलकाता

आखिरकार तीन साल बाद आईआईटी कैम्पस में एक करोड़ रुपये से ज्यादा के पैकेज के ऑफर लौट आए हैं। आईआईटी, मद्रास के फाइनल प्लेसमेंट के पहले दिन कंप्यूटर साइंस के दो स्टूडेंट्स को (प्रत्येक) 2 लाख 10 हजार डॉलर (करीब 1 करोड़ 31 लाख रुपये) का ऑफर मिला। हालांकि इंस्टीट्यूट ने तो ऐसे ऑफर से इनकार किया है, लेकिन प्लेसमेंट प्रॉसेस से जुड़े सूत्रों ने बताया कि अमेरिकी कंप्यूटर

कैम्पस प्लेसमेंट में देशी-विदेशी कंपनियों स्टूडेंट्स को ले रही हैं हाथों-हाथ

टेक्नॉलजी कंपनी 'ओरेकल' ने करोड़ रुपये से भी ज्यादा का ऑफर दिया है। इसमें ज्वाइनिंग बोनस भी शामिल है। टॉप ऑफर मित्सुबिशी, एप्पल, ओरेकल के अलावा जोमैटो जैसी भारतीय स्टार्टअप कंपनियों से मिले हैं। मेहरबान हुई कंपनियां : आईआईटी, मद्रास में डोमेस्टिक कंपनियों की ओर से ऑफर बढ़कर 48 लाख 68 हजार रुपये पर पहुंच गया, जो पिछले साल 28 लाख 82 हजार रुपये था। आईआईटी खड़गपुर और गुवाहाटी जैसे संस्थानों पर भी कंपनियां ज्यादा मेहरबान रही हैं। प्लेसमेंट प्रॉसेस से जुड़े लोगों की मानें तो आईआईटी खड़गपुर में शनिवार शाम तक इंटरनेशनल रोल के लिए सबसे ज्यादा सैलरी 1 लाख 50 हजार डॉलर (93 लाख रुपये) ऑफर की गई थी। आईआईटी गुवाहाटी में सबसे ज्यादा पैकेज 1 लाख 20 हजार डॉलर



(तकरीबन 74 लाख 8 हजार रुपये) रहा, जबकि पिछले साल यह रकम 1 लाख 19 हजार डॉलर थी।

बॉम्बे में भी बल्ले-बल्ले

पिछले साल कोरियाई कंपनी सैमसंग इलेक्ट्रॉनिक्स ने आईआईटी बॉम्बे में 1 लाख 35 हजार डॉलर (84 लाख रुपये) का पैकेज ऑफर किया था। इंस्टीट्यूट के एक प्लेसमेंट मैबर के मुताबिक, इस साल भी इसी रेंज में ऑफर की उम्मीद है। आईआईटी बॉम्बे के शॉर्टलिस्टेड कैंडिडेट्स के लिए माइक्रोसॉफ्ट और गूगल की तरफ से 1 लाख 10 हजार डॉलर (तकरीबन 68 लाख रुपये) का पैकेज मिलने की उम्मीद है। गूगल ने आईआईटी गुवाहाटी में 1 लाख 20 हजार डॉलर (74 लाख 8 हजार रुपये) का पैकेज ऑफर किया है। खबर में डॉलर का आंकड़ा देश से बाहर के ऑफर के लिए है, जबकि रुपये के आंकड़े घरेलू रोल के लिए हैं।

दिल्ली में रेकॉर्ड पैकेज

आईआईटी दिल्ली में जोमैटो ने 26 लाख रुपये का ऑफर दिया है। इस संस्थान में डोमेस्टिक पैकेज के तहत

आईआईटी, मद्रास के फाइनल प्लेसमेंट के पहले दिन कंप्यूटर साइंस के दो स्टूडेंट्स को 2 लाख 10 हजार डॉलर (करीब 1 करोड़ 31 लाख रुपये) का ऑफर मिला।

सिस्टम्स की ओर से आईआईटी दिल्ली में 1 लाख 4 हजार डॉलर (तकरीबन 64 लाख 8 हजार रुपये) का ऑफर करने की संभावना है। यह आईआईटी दिल्ली में सॉफ्टवेयर इंजीनियर के लिए सबसे ज्यादा पैकेज होगा। पिछले साल कंपनी ने 90 हजार डॉलर का ऑफर कर 16 लोगों की भर्ती की थी। कंपनी की तरफ से इस साल भी इतने ही लोगों की भर्ती की संभावना है। ग्लोबल प्राइवेट इक्विटी फंड ब्लैकस्टोन आईआईटी से 35 लाख रुपये के पैकेज पर स्टूडेंट्स की भर्ती कर रहा है। यह पे-पैकेज पिछले साल के मुकाबले 10 लाख रुपये ज्यादा है।

सबसे ज्यादा ऑफर (33 लाख रुपये) स्लमबर्जर की तरफ से मिला है। पिछले साल इस कंपनी ने 30 लाख का ऑफर दिया था। इंटरनेशनल प्रोफाइल के लिए पैकेज 58 लाख रुपये तक जा सकता है। अमेरिकी सॉफ्टवेयर कंपनी एपिक

आईआईटी कानपुर के दो छात्रों को 1.20 करोड़ का वेतन पैकेज

● संतोष सिंह

कानपुर। आईआईटी कानपुर के कंप्यूटर साइंस एंड इंजीनियरिंग डिपार्टमेंट के दो स्टूडेंट्स को अमेरिका की आईटी कंपनी ओवेकल ने सालाना 1.20 करोड़ रुपये का वेतन पैकेज दिया है। यह आईआईटी कानपुर में अब तक का सर्वाधिक वेतन पैकेज है। इसके अलावा कंप्यूटर साइंस एंड इंजीनियरिंग के ही सात स्टूडेंट्स को सालाना 75-80 लाख रुपये का वेतन पैकेज मिला है। इस बार कैम्पस प्लेसमेंट में बीटेक-एमटेक डुवल डिग्री प्रोग्राम के स्टूडेंट्स की जबरदस्त डिमांड है। प्लेसमेंट के दूसरे दिन ही आईआईटी के 200 स्टूडेंट्स का कैम्पस सेलेक्शन हो गया है।

आईआईटी में चल रहे कैम्पस प्लेसमेंट के दूसरे दिन सोमवार को सालाना वेतन पैकेज का रिकॉर्ड टूट गया है। 2012 में फेसबुक ने यहां के स्टूडेंट्स को 90 लाख से एक करोड़ का वेतन पैकेज दिया था। अमेरिका की आईटी कंपनी ओवेकल ने कंप्यूटर साइंस एंड इंजीनियरिंग के बीटेक-

● अमेरिकी आईटी कंपनी ओवेकल ने दिया छप्पर फाड़ ऑफर

● सात छात्रों को सालाना 75-80 लाख रुपये का वेतन पैकेज

एमटेक डुवल डिग्री प्रोग्राम के अरबाज खान और बीटेक के सुखदीप सिंह संधू को सालाना 1.20 करोड़ के वेतन पैकेज का ऑफर लेटर दे दिया है। अमेरिकी कंपनी रॉकेट फ्यूल ने बीटेक-एमटेक डुवल डिग्री प्रोग्राम के प्रखर बांगा और बीटेक की प्रियंका लड्डा को सालाना 80-80 लाख का वेतन पैकेज दिया है। गूगल ने सात्विक चौहान और पुलकित जैन सहित कंप्यूटर साइंस एंड इंजीनियरिंग के पांच स्टूडेंट्स को सालाना 75-75 लाख रुपये के वेतन पैकेज पर नौकरी दी है।

मंदी को मात | आईटी प्रोफेशन में लौटा करोड़ रुपए की सैलरी का दौर आईआईटी मद्रास के स्टूडेंट्स को 1.31 करोड़ तक के सालाना पैकेज

एजेंसी | बेंगलुरु/नई दिल्ली

तीन साल से मंदी के दौर से गुजर रहे आईटी क्षेत्र में फिर से बूम देखा जा रहा है। इंडियन इंस्टीट्यूट ऑफ इन्फॉर्मेशन टेक्नोलॉजी (आईआईटी) के कई स्टूडेंट्स को इस साल मल्टीनेशनल कंपनियों ने एक करोड़ रुपए से ज्यादा के सालाना पैकेज ऑफर किए हैं।

कैंपस प्लेसमेंट में आईआईटी मद्रास के कंप्यूटर साइंस के दो स्टूडेंट्स को 1 करोड़ 31 लाख रुपए (प्रत्येक) का सालाना ऑफर मिला। यह ऑफर अमेरिकी कंप्यूटर टेक्नोलॉजी कंपनी ओरेकल ने दिया है। आईआईटी ने फिलहाल स्टूडेंट्स के नामों का खुलासा नहीं किया है।

तीन साल बढ़ी नहीं, घटी थी सैलरी

कंसल्टिंग फर्म डेलॉयट के मुताबिक, आईटी इंडस्ट्री में मंदी के चलते कंपनियों ने बड़े पैकेज ऑफर नहीं किए। कुछ कंपनियों में तो सीईओ की सैलरी में भी कटौती की गई। ओरेकल के सीईओ लैरी एलिसन के वेतन में 2013 में 18 फीसदी की कटौती की गई। उनका वेतन 9.93 करोड़ रु. था, जो कटौती के बाद 8.25 करोड़ रह गया। बोनस भी नहीं मिला। इसकी वजह यह रही कि कंपनी अपने टारगेट पूरे नहीं कर पाई और घाटे को पूरा करने के लिए सभी इम्प्लॉय की सैलरी में कटौती की गई।

घरेलू कंपनियों के ऑफर भी दोगुने | डोमेस्टिक कंपनियां भी इस साल 50 लाख रुपए तक के ऑफर देने लगी हैं। जबकि, पिछले साल 26 लाख 82 हजार रुपए का पैकेज सबसे बड़ा था।

2014 में 14 फीसदी तक की ग्रोथ होगी: नेसकॉम

2014 में आईटी इंडस्ट्री में 12-14 फीसदी का उछाल आएगा। इसी आधार पर कंपनियों नए टारगेट लेकर मार्केट में उतरी हैं। वैश्विक स्तर पर टेक्नोलॉजी की डिमांड बढ़ी है। आईटी इंडस्ट्री 5 लाख 23 हजार करोड़ का निर्यात करेगी। भारत को इससे 1 लाख 22 हजार करोड़ का राजस्व मिलेगा।



-एन. चंद्रशेखरन,
चेयरमैन, नेसकॉम

Students at IIM-Rohtak



By Mail Today Bureau

THE INDIAN Institute of Management (IIM), Rohtak, completed its summer placements by securing Internships for all its 152 students across 69 companies.

Despite an increase in batch size from 125 to 152, IIM-R finished the placement process earlier than last year. The institute was able to leverage the advantage of being the only IIM in National Capital Region. The highest stipend on campus was 1 lakh.

The average stipend saw an increase of 34 per cent from the previous year. The enthusiastic participation of the industry led to the placement of the entire batch of students across diverse domains.

IIM-R students draw higher stipend

The recruiters offered profiles like brand strategy, B2B marketing, marketing research, services marketing, sales, rural marketing and advertising. IIM Rohtak also attracted a few major companies in the finance sector, despite an uncertain economic climate. As many as 23 per cent of the batch was placed in profiles such as, investment banking, financial modeling, corporate finance, trading, retail banking, project finance, portfolio management, risk management and treasury.

Marketing profiles were offered to 36 per cent of the students. Strategy, IT, Consulting, HR, Operations and General Management constituted the remaining profiles. Some of the major recruiters who visited the campus included ICICI Bank, Covidien Healthcare, Perfetti Van Melle, Vedanta, Tetrapak, Jet Airways, Indian Oil Corporation Ltd, ABB, SEBI, NTPC, Aviva Life Insurance, Idea

As many as 23 per cent of the batch was placed in profiles such as investment banking, financial modeling, corporate finance and retail banking

Aditya Birla, Jindal Steel & Power Limited, IFB Global, Tata Motors, Tata Power, TCS, HCL,

Motorola, Airtel, Baxter, Actuate Business Consulting, Mphasis, RJ Corp, McCann Erickson and Future Group.

In its fifth year of operation, students at IIM Rohtak's latest batch are from leading institutes such as the IITs, NITs, BITS, SRCC and other reputed institutions from across the country.

The institute's success in various competitions, highly publicised management and HR conclaves, frequent industry interaction, guest lectures and emphasis on social initiatives have drawn widespread appreciation from the corporate world.

Amar Ujala ND 12/3/2013

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प्रोफेसर मिनी एस. थॉमस पुरस्कृत



नई दिल्ली (ब्यूरो)। जामिया मिल्लिया इस्लामिया की प्रोफेसर मिनी शाजी थॉमस को इंजीनियरिंग के सबसे बड़े आईईईई एमजीए लैरी के विल्सन अवार्ड 2013 के लिए चुना गया है। प्रोफेसर मिनी को अवार्ड में प्रशस्ति चिह्न के साथ एक हजार यूएस डॉलर भी मिलेंगे। प्रोफेसर मिनी थॉमस फैकल्टी ऑफ इंजीनियरिंग एंड

टेक्नोलॉजी की डिपार्टमेंट ऑफ इलेक्ट्रिकल इंजीनियरिंग की सीनियर प्रोफेसर हैं। इन्हें इंजीनियरिंग के क्षेत्र में किए गए सराहनीय कार्यों की वजह से चुना गया है। यह पुरस्कार इंस्टीट्यूट ऑफ इलेक्ट्रिकल एंड इलेक्ट्रॉनिक इंजीनियरिंग (आईईईई) देता है।

Business Line ND 12/3/2013

P-7

Wonder boys make big strides in the world of Apps

Thomas P. Abraham
Chennai, Dec. 2

The current age of nano chips and nanotechnology has created another set of nano wonders — the co-founders of an IT product development company — brothers Shравan Kumaran, 13, and Sanjay Kumaran, 12. The two are studying in the XI grade and VII grade, respectively, at Vael's Billabong International School, Chennai.

Shравan is the Co-founder and President of their company GoDimensions, while his younger sibling is the other Co-founder and CEO.

The two brothers, the youngest mobile application programmers in India and among the youngest in the

world, have developed seven mobile applications that are currently available on Apple Inc's App Store. Besides, they have created three Apps for Google Inc's Android Play store. Till date, these Apps have been downloaded more than 60,000 times from 62 countries, they say.

So, how did it all start? "We were always interested in computers. We would fiddle with our dad's computer, initially," says Shравan with a smile.

Their father, an IT professional, started them on QBasic and Java. They then moved on to mobile Apps themselves. By 2011, the two brothers had already developed about 150 test Apps.

Soon, GoDimensions



Nano venture: Shравan Kumaran (left), President, with his brother Sanjay Kumaran, CEO, Go Dimensions. — Bijoy Ghosh

(www.godimensions.com) followed. Their first App was a game called Catch Me Cop, where a conman escapes a prison and there is a nationwide hunt for him. There are multiple levels of this App, with varying speeds and cops. It was released in

January 2012, and downloaded in over 25 countries, they say.

They are now planning an App through which users get latest tech news. For instance, when a new technology or gadget is released in the US, it takes months for it to reach

countries like India. Users of the App get information on the release as it happens globally, they say.

So, how do the two handle the fame and recognition that have come their way?

"Initially, some of our school friends would open doors for us, and address us with a 'sir'. That was funny. But we put a stop to it. We wanted to lead a normal life and have normal friends," says Shравan.

The two boys have visited scores of schools, colleges and management institutes across India, addressing about 60,000 students and sharing their experiences.

Recently, they spoke at IIM-Bangalore's flagship event, Eximus as the youngest entrepreneurs in India.

Besides they have made a slew of presentations at various forums in India, including the CII and the DRDO, as well as addressed a gathering of over 200 CEOs in South Korea.

"Till date, we have earned \$600 from the download of the Apps," says Sanjay. Going forward, they aim to scale it up into a global NewGen mobile Apps company, with 50 per cent of global smart phones running their Apps.

"But we will give 15 per cent of whatever we earn to charity," they say.

Clearly, the nano entrepreneurs have taken inspiration from IT sector philanthropists Bill Gates, Narayana Murthy and Azim Premji.

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Developmental education

At the 12th convocation ceremony of Rajiv Gandhi University, Doimukh, Arunachal Pradesh, President Pranab Mukherjee said that people of India needed to work harder to get past the present state of moral challenges. He said this while expressing his concern about a need for focused education in India. Mukherjee said that educational institutions play an important role in inculcating certain moralistic values like performing ones duties and being compassionate to all. Stressing on the importance of education, he asserted that it breeds open mindedness towards divergent perspectives and that education is any society's bedrock.

Though India had done well in terms of economic development, the country is still far from being considered a developed society. This was because development didn't only constitute a growth of infrastructure but of minds and values too and holistic education would serve the purpose of bridging this gap. The President was in Arunachal Pradesh for a two-day visit.

He said bringing back quality in higher education was a must because according to a survey, Indian institutes didn't figure anywhere in the top 200 ranks and this is after ancient universities in the country didn't just rank for one or two years but for 1,800 years. India was poised to become a super power and quality expansion was required more than physical expansion.

"There is no dearth of quality teachers

EXPRESSING HIS VIEWS ON THE NEED FOR GOOD EDUCATION IN INDIA, PRESIDENT PRANAB MUKHERJEE ASKED STUDENTS OF RAJIV GANDHI UNIVERSITY, ARUNACHAL PRADESH TO BEGIN INTENSIVE RESEARCH IN THE STATE

and students, what we need is quality education and an atmosphere for that." Education and research had to improve in order to prevent students from opting to study abroad. Mukherjee said India has an archaic approach to education and reforms were required in it. He then went on to urge students to create essential research matter on border trade advantages and methods by which the Northeast's economy can be integrated with national and global economies.

This would help the region to develop. He said Arunachal Pradesh was going through a massive transition and important spheres in the economic sector like hydel power and tourism can drive this transition far but it was only through education that this change could be made.

He said that the state was a goldmine for conducting research because of its natural resources and biodiversity and that Rajiv Gandhi University must prioritise the fields of research that it wishes to undertake. "You must carry out inter-disciplinary research on natural resource management. You must conduct research on challenges in hill economy, conflict between traditional and modern institutions, border trade opportunities and integration of the northeast economy with the national and global economies," he said addressing the students.

Rajiv Gandhi University was first known as Arunachal University and provides courses in Economics, Engineering, Management and Medical Education and life sciences. Late Indira Gandhi had laid the foundation stone for this university on 4 February 1984.



President Pranab Mukherjee addressing the first convocation of Indira Gandhi National Tribal University at Amarkantak in Madhya Pradesh on 7 June 2013.

FUTURE TODAY

There has been a paradigm shift in the technology sector in the last few months and for graduates wishing to leave a mark in the new reality, the future begins now

By Prithvi Shergill

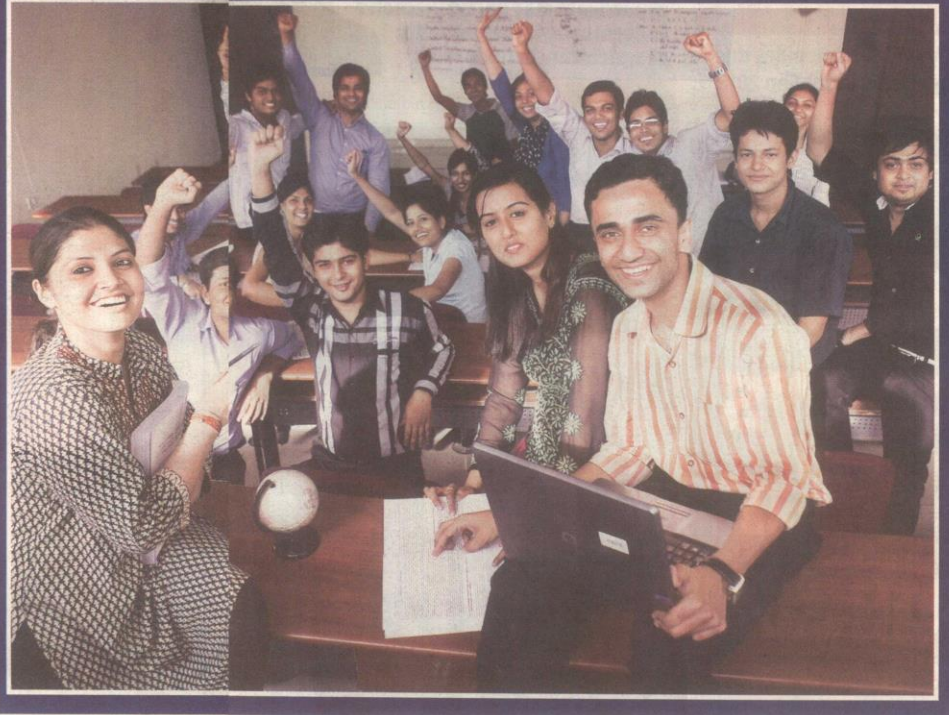
HAVING worked in the technology industry for several years, I have witnessed some fundamental changes in the sector over the last few months. Given the volatility in the market, many of these changes will impact the way graduates will now have to prepare for a career in the industry. They have to rethink the nature of capabilities, both capacity and abilities, needed to succeed in a new work environment. Skills in teaming, cross cultural communication, creativity and accountability are now prerequisites to enter the workforce even as the need for strong and distinctive technical and domain skills remain vital.

It is important for graduates to understand that the ultimate responsibility for preparing themselves lies in taking charge of their own personal development. It is true that 16 to 20 semesters of quality education at the college level builds a strong foundation, but it is the intrinsic drive and self-motivation, the key ingredients in building distinctive abilities, which an employer is interested in while hiring a candidate.

A young graduate who wishes to be future ready should take the responsibility of understanding the emerging trends in his/her chosen field and find out how it will translate into opportunities in the workplace. I would like to list here some of the beneficial habits I have observed in my colleagues as they work towards a path of self-development. To begin with, the technology

In a world where people are assessed on a relative scale, it will be individuals who innovate better and drive change who will progress faster

Understanding emerging trends is vital for a fresh graduate to retain the edge in the job market. Students at Galgotias University and Sharda University, G.Noida, (right and below)



Quality education at the college level builds a strong foundation, but it is the intrinsic drive and self-motivation of a candidate that an employer is interested in while hiring

— PRITHVI SHERGILL, Chief Human Resources Officer, HCL Technologies

industry now realises that to reach where it wants to be tomorrow, they need individuals who can stay hungry to learn and increase their knowledge and experience beyond their specialisation.

Jagdish Sheth, a marketing scholar and professor at Goizueta Business School at Emory University, U.S., warned professionals of becoming "competence

dependent." He advised young professionals not to get trapped in their competencies as the same skill sets will become liabilities, when they become irrelevant.

It is important to grow professional networks. Associations give young professionals an opportunity to expand their network beyond their peer groups. I urge young professionals to consider having a meal or a coffee with at least one person a week and talk about their work, their career and what they see the future to be. There will always be something to



share and something to learn from these interactions. Young professionals should take time out to volunteer for exploratory cross-functional projects and programmes within their organisations or undertake research work or study programmes that will help them in building the latest skill sets. Participating in meaningful activities and events hosted by industry and professional associations will grow their ability to predict the direction and changes taking place in the industry. For the Millennial Generation

(people aged between 18 and 33), social media is the platform they have grown up with. Apart from being active users of such platforms, young graduates and professionals need to understand how it can be leveraged and monetised. Research done several years ago at the Bell Labs, a subsidiary of Alcatel-Lucent, the French global telecommunications equipment company, showed that the difference between a strong performer and a top performer is the ability to "Show and Tell." In a world where performance management

processes assess people on a relative scale, it will be individuals who drive change and innovate better who will progress and grow faster.

NO MATTER how proficient a candidate is individually, success tomorrow is delivered only to those who have the ability to team with others and communicate authentically. The importance of clarity, consistency and confidence in such communication is important.

Future ready organisations will grow if they find people who have the distinctive ability to drive change and innovate. At HCL, we discover individuals who have a track record of demonstrating these behaviours through initiatives across engineering and management institutes in India which include competitions such as the Ideathon, where students share their big ideas that can shape the future of management.

The writer is the Chief Human Resources Officer, HCL Technologies

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China launches its first lunar rover to explore the surface of the moon

Stepping stone to greater things

The launch of China's first moon rover, christened Yutu or Jade Rabbit, signifies a big leap for the Chinese space programme. Similar to American and Soviet missions in the past, the Chinese rover will explore the surface of the moon and look for natural resources. The mission builds on China's already impressive space programme that can boast of five manned space missions. Add to this the successful launch of a space laboratory, plans to send a man to the moon and building a permanent Chinese space station by 2020. In fact, the vibrancy of the Chinese space programme is a tribute to how far China has come – both economically and scientifically – in the last three decades.

For those who scoff that the Americans and Soviets have already done lunar rover missions, it is nevertheless an important technological milestone that China, playing catch-up, must go through before it can compete with other spacefaring powers. And such competition is good, as it can spur other nations such as the US to reboot their space programmes, which

otherwise the Obama administration had cut back on. The scientific spinoffs of space missions are immense and find application in a wide array of fields. Consider also advances in astronomy. India's

TIMES VIEW

Chandrayaan-1 lunar probe had confirmed the presence of water in moon soil. Similarly, the Chinese Jade Rabbit rover could discover significant deposits of rare earth minerals under the moon surface, which could be mined.

It is imperative that more countries aspire to make forays into space. This will not only facilitate a democratic distribution of space-based technologies but also push nations up the development curve. Cultivating space technologies could also one day help the growing human population setup colonies on other planets as well.



Bigger priorities are closer home

By launching its first moon rover mission, China might take pride in its new step towards superpower status. But its space mission is a latecomer, also-ran after the US and the former Soviet Union

COUNTERVIEW

Chandan Nandy

established themselves as competing space-faring nations with their moon landings dating back more than four decades. The rover's mission will be to conduct geological surveys and search for natural resources, which tasks too were completed successfully by India's Chandrayaan-1 that was able to discover water on the moon and the radiation environment in the vicinity. Besides, China is still years away from sending a human to the moon.

That China has joined the US and Russia as the third nation with the capability of probing the moon is not, in itself, a sig-

nificant challenge to American supremacy. The Chinese programme still lags behind when compared with the US and Russia (and sometimes they just rip off Russian technology). China has now become well-placed to land a probe mission on the lunar surface because of the Obama administration's decision to abandon NASA's plans to return to the moon and not because the US is incapable of setting up a permanent presence on the moon or in space.

A totalitarian regime in Beijing does not have to seek permission at different levels of government or seek budgetary approvals. The Chinese government should fast-track its investment in energy-saving technologies in its attempts to tackle worsening pollution problems which are the outcomes of China's massive economic growth. Instead of investing in a space programme that is suspected to have military objectives, the government should have pushed technological innovations that can resolve an ecological crisis on earth.

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Soon, doorstep delivery by drones

Amazon CEO Unveils Service That Could Transform Online Shopping

Chidanand Rajghatta | TNN

Washington: Better known in some parts of the world for delivering death from the sky, drones could soon be delivering life-saving parcels, from medicines to mail, to your doorstep. In a thrilling leap of technology — and a major PR coup — Amazon's CEO Jeff Bezos on Sunday revealed an ex-

► New air rules for drone, P 20

perimental drone-based home delivery service that can deposit a package at your front door or roof-top in as little as 30 minutes from the time you place an order online.

"I know this looks like science fiction, it's not," Bezos told CBS 60 Minutes on Sunday, demonstrating a working



'NOT SCIENCE FICTION': This 'octocopter' mini-drone could be used to fly small packages to consumers, said Amazon's Jeff Bezos

prototype of an eight-rotor helicopter drone called an "octocopter" that can pick up packages up to 5 lbs from Amazon's fulfilment centres and fly them up to 10 miles. He said the service, dubbed Amazon Prime Air, could be ready for customer use in "four or five years".

The technology is not new. In fact, one of the pioneers of the flying mini-robot is the Indian-American roboticist Vijay Kumar at University of Pennsylvania (also alumnus of IIT Kanpur) who is known for his research in the control and coordination of multi-robot formations. But the vi-

sionary Bezos, known for his out-of-box thinking, has been the first to seize the commercial application of the technology, leaving others such as Fed-Ex, UPS, and Wal-Mart to play catch up.

Amazon's octocopters operate autonomously and once an Amazon employee enters a delivery recipient's location, the flying robot uses Global Positioning System (GPS) to deposit the package at the designated coordinates.

"It's very green, it's better than driving trucks around," Bezos said, revealing that the company is working on building in redundancies and reliabilities — such as making sure the drone does not land on someone's head or crash into electric poles.

HT Kolkata

IIT-Kgp wins Sweden India Nobel Quiz

IIT-Kharagpur won the grand finale of Sweden India Nobel Memorial Quiz 2013, held at Jesus and Mary College, New Delhi, on November 27. The team of three comprising Somsish Ghosh, Ajaya

Biswanathan and Saswata Panigrahi had won while pitted against teams from six other states. The inter-college quiz competition is organised every year by the Embassy of Sweden in India in cooperation with leading Swedish businesses in India as a part of the Sweden



India Nobel Memorial Week, which celebrates the spirit of the Swedish innovator, entrepreneur and philanthropist Alfred Nobel. The winners get an all-expense paid trip to Sweden, where they will visit the headquarters of partner companies, universities and the Nobel Museum.