

US Engineering Graduates: Shortage or Glut

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Globalization hits home



Rising above the Gathering Storm- Revisited

- In spite of the nation's growing population and the explosion of knowledge in science and technology and its impact during the past decade, **the number of recipients of bachelor's degrees in engineering from US Universities has remained virtually constant.** In contrast the number of engineers receiving doctorates has increased significantly (from about 6000 to 8000 graduates per year) in the last five years for which data is available. The increase is however largely attributable to foreign student enrollment. Also among those receiving bachelor's degrees in engineering in the US less than 20 percent are awarded to women. Similarly, black and Hispanic representation among those receiving bachelor's degrees in engineering is less than one half their proportionate share in the overall population. Students receiving their undergraduate degrees in the natural sciences and engineering from US undergraduate institutions represent 16 percent of total enrollment of those institutions. This contrasts with 47 percent in China, 38 percent in South Korea, and 27 percent in France.*

Baccalaureate
degrees awarded
in engineering

Diversity

Proportion of
students receiving
degrees in STEM
fields

So..

- In the immortal words of Dylan – ‘The times they are a changin’
- Globalization and Innovation are driving change
- Is there a shortage or glut?