



Rolls-Royce

ASME Turbo Expo 2007:

*Developing the Next Generation
of Global Gas Turbine Engineers*

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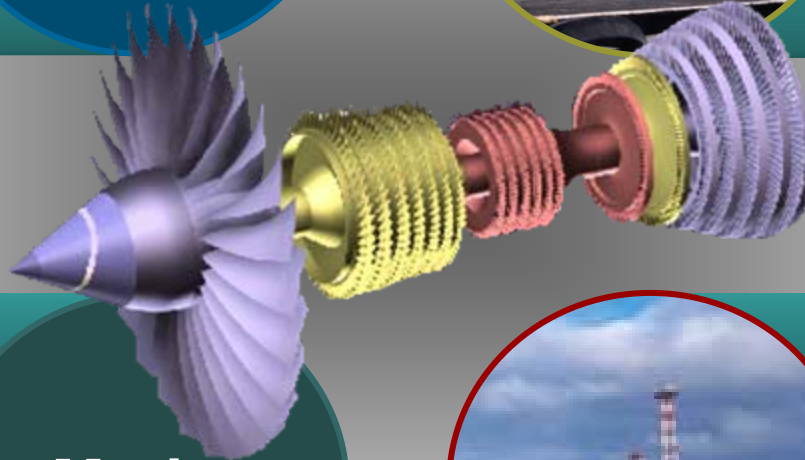
Rolls-Royce Group



**Civil
Aerospace**



Defense



Marine



Energy

Four different businesses utilizing common aero technology

Developing the Next Generation of Global Gas Turbine Engineers

- To “develop” a career is to **make choices**
- What **motivates** you?
 - “Creating” something new
 - “being an expert”
 - managing others / a team
 - advising / coaching others
 - “organizing” things
 - Etc...
- Work hard to make sure you **stay yourself...**
- It’s difficult to succeed in any other role !

Developing the Next Generation of Global Gas Turbine Engineers

- **Early Career...means who?**
- **Its takes approximately...**
 - ~ **2 years** to become productive...
 - ~ **10 years** to become an “expert” (in any field)
- **The experiences you have in your first 10 years will shape how you see you the rest of your career...**

Developing the Next Generation of **Global** Gas Turbine Engineers

- **“being global”** means?
- **Multi-cultural** engineering teams
- **Geographically dispersed** engineering teams

- **“you’re only as good as what you’re able to communicate”**
 - **Absolutely nothing to do with language !**

Developing the Next Generation of Global **Gas Turbine** Engineers

- **Some of the future (current) global challenges:**
- **Energy Supply**
 - **Alternative Fuels (Bio, Synthetic, Coal, ...)**
 - **Alternative Heat Sources (nuclear, electrochem, ...)**
- **Materials Supply**
 - **Cost & availability of GT materials (Nickel, Titanium, ...)**
- **Environmental Impact**
 - **Product (air pollution, noise, ...)**
 - **Plants (energy, water, air, ...)**

Developing the Next Generation of Global Gas Turbine **Engineers**

● What's **engineering**?

- *The ability to use intellect, intuition and communication skills to create artificial (man-made) systems that respond to society's needs.*
- **Intellect**
 - Formal learning, abstract thinking
- **Intuition**
 - Experiential learning, emotional thinking
- **Communication**
 - Can't do anything alone
- **Society's needs**
 - It has to be useful to someone

THANK YOU !
ALL THE BEST !

