Best Practices of Hosting Institutions in Europe

İzmir Institute of Technology

Dr. Mehmet İsmet Can Dede
Marie-Curie Fellow
Outline

• Personal background
• Top 5 reasons for moving back
• What makes IYTE so unique?
• Application process
• Lasting co-operation with previous institute?
• Suggestions for the European Institutes to host re-integrating researchers
Personal Background

- BS in Mech. Eng. of ITU
- MS in Mech. Eng. of METU
- Mechatronics Design Engineer, Aselsan Inc.
- PhD in Mech. Eng. of FIU
- More than 30 publications: a book, book chapters, journals and conference proceedings
Personal Background

• Dean’s Award for Excellence in Overall Research Productivity, FIU
• Dissertation Year Fellow, FIU
• Marie Curie Fellow
• Asst. Prof. in Mech. Eng. of IYTE
• Robotics, haptics and teleoperation
• Military, medical and everyday robotics
The Top 5 to Move Back

• Add to the research and competitiveness of Turkey => EU
• Collaboration opportunities with EU researchers
• Need of improvements in every area of life in Turkey => Calls for innovative ideas
• Young people => Huge potential
• Military projects may require clearance
IYTE or Izmir Young Technology of Excellence

- Campus area of 8650 acres (more than one third of the Grand Duchy of Luxembourg)
IYTE or Izmir Young Technology of Excellence

- Izmir Technology Development Zone

- Currently serving entrepreneurs with five buildings in 12,200 sq m of closed space
- Occupies an area of 225.5 hectares
- Final development target is 402,000 sq m of building space and 12,000 qualified personnel
IYTE or Izmir Young Technology of Excellence

• Quality of the students
  – Selected
  – Eager to do research

• Brand new buildings
  – Lots of room to study
IYTE or
Izmir Young Technology of Excellence
IYTE or Izmir Young Technology of Excellence

  - Move in by June 2009
  - 12,000 sq m closed area includes:
    Ceramic Materials Laboratory, Composite Materials Laboratory, Control, Artificial Intelligence, Design Laboratory, Dynamic Test and Modelling Laboratory, Energy Laboratory, Fluid Laboratory, Heat Laboratory, Mechanics Laboratory, Mechatronics Laboratory, Microstructure and Mechanical Test Laboratory, Powder Metallurgy Laboratory, Robotics Laboratory, Wind and Solar Energy Laboratory
IYTE or Izmir Young Technology of Excellence

- Possible multidisciplinary research opportunities with two university hospitals
Application Process

- Relatively easy and straightforward process
- Have a research idea that grows from the roots of your previous research
- Do have valuable previous research
- Get all the help possible from a very helpful national contact point – special thanks to Ms. Cullu
- Focus on the betterment of the society
Everlasting Relationship with FIU?

- It is a requirement in teleoperation research!
- FCRAR connection with the robotics researchers in Florida
- Possible co-operation with CIMAR of UF on utilization of MR fluids in haptic devices
- Joint proposal activities with fellow researchers at FIU and UM Biomedical
Suggestions for the Host Institutes

• European Institutes should have room (labs, offices, grad students, research funding, new courses) for the researcher to establish his/her own research

• Competitive salary and more research hours

• Support conference activities for networking

• Way too much bureaucracy for the state universities => should be re-considered