



UNIUNEA EUROPEANĂ



GUVERNUL ROMÂNIEI
MINISTERUL MUNCII, FAMILIEI
ȘI PROTECȚIEI SOCIALE
AMPOSDRU



Fondul Social European
POSDRU 2007-2013



Instrumente Structurale
2007-2013



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PRACTICOR - Fraunhofer Institute for Manufacturing Engineering and Automation IPA

Fraunhofer is Europe's largest application-oriented research organization. Our research efforts are geared entirely to people's needs: health, security, communication, energy and the environment. As a result, the work undertaken by our researchers and developers has a significant impact on people's lives.

The Fraunhofer-Gesellschaft maintains roughly 80 research units, including 58 Fraunhofer Institutes, at over 40 different locations in Germany. A staff of some 12.500, predominantly qualified scientists and engineers, work with an annual research budget of around €1 billion.

Fraunhofer Institute for Manufacturing Engineering and Automation IPA

Finding solutions to organizational and technological challenges, particularly within the production environment of industrial enterprises: that, in a nutshell, is the key focus of the research and development work carried out at the Fraunhofer Institute for Manufacturing Engineering and Automation IPA. With 15 individual departments engaged in the fields of Corporate Organization, Automation and Surface Engineering, our R&D projects aim to enhance production processes and make products more cost-effective and environmentally friendly by identifying and exploiting the potential for automation and streamlining at clients' companies. This helps to strengthen their international competitiveness and to create new employment opportunities.

The Fraunhofer IPA was founded in 1959 and incorporated in the Fraunhofer-Gesellschaft in 1971. Of the 58 institutes that make up this prestigious research organization, the Fraunhofer IPA is one of the largest single institutes, employing around 200 scientists.

More information under: www.ipa.fraunhofer.de



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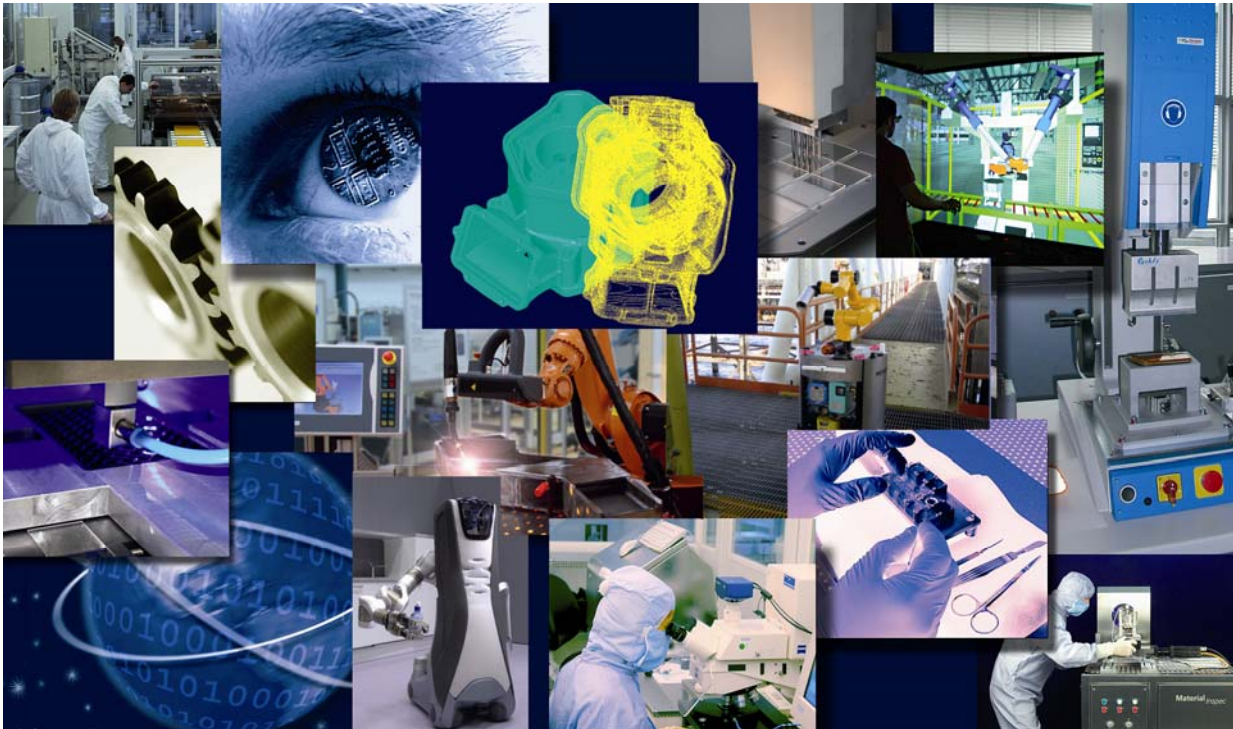


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PRACTICOR and Fraunhofer IPA

During PRACTICOR project, Romanian students will have the possibility for a first contact, inside Fraunhofer IPA, with the top themes of the international applied research fields.



They will be able to choose one of the following fields and to develop important skills for their future professional career.

Nr.	RESEARCH FIELD
1.	<p data-bbox="412 1528 561 1556">• Themes ...</p> <p data-bbox="727 1587 956 1614">COATING TECHNOLOGY</p> <ul data-bbox="412 1640 1382 1717" style="list-style-type: none"> <li data-bbox="412 1640 886 1667">• Modeling and simulation of coating techniques <li data-bbox="412 1667 1382 1694">• Developing and testing coating processes and equipment tailored to specific production environments <li data-bbox="412 1694 1109 1722">• Integrated analysis and implementation of surface technology processes
2.	<p data-bbox="586 1749 1097 1776">FACTORY PLANNING AND PRODUCTION OPTIMIZATION</p>



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	<ul style="list-style-type: none"> • Integrated factory and logistics planning • Production management and value stream mapping and design
3.	<p style="text-align: center;">ORTHOPAEDICS AND MOTION SYSTEMS</p> <ul style="list-style-type: none"> • Applications for motion control system • Applications for biomechanics
4.	<p style="text-align: center;">PRODUCTION AND PROCESS AUTOMATION</p> <ul style="list-style-type: none"> • Key focus: Bioproduction • Key focus: Medical device
5.	<p style="text-align: center;">TECHNICAL INFORMATION PROCESSING</p> <ul style="list-style-type: none"> • Image processing • Digital signal analysis
6.	<p style="text-align: center;">ADDITIVE MANUFACTURING AND PRINTING TECHNOLOGIES</p> <ul style="list-style-type: none"> • Product design for orthopedics and medical devices • Printing technologies for manufacturing functional surfaces/structures
7.	<p style="text-align: center;">ROBOT SYSTEMS</p> <ul style="list-style-type: none"> • Key technologies for industrial robots • Key technologies for service robots
8.	<p style="text-align: center;">PRODUCT AND QUALITY MANAGEMENT</p> <ul style="list-style-type: none"> • Product recycling and management of hazardous substance • Integrated product and process development