

Job/Fellowship Reference: C2008-IST/IDMEC.3

Main research field: Engineering

Sub research field: Mechanical engineering

Job summary:

IDMEC/IST-3: Incremental Sheet Forming Processes

Conventional sheet metal forming and polymer processing technologies, are generally utilized for large batch sizes because the energy costs and the capital investment in equipment and tooling are very high. As a result of this, conventional technologies are not suitable for flexible small-batch production and, therefore, are not appropriate for the growing agile manufacturing trends requiring very short life-cycles and very short development and production lead times. Recent advances in incremental sheet forming of metal blanks, tailored metal blanks (produced by friction stir welding) and polymer blanks are opening new trends, with a high potential economic payoff, for rapid prototyping applications and for small quantity production of components for automotives and aeronautics/aerospace vehicles. The Doctor is required to develop competences in the experimental and numerical modelling of incremental forming processes and to bring together existing expertises in the fields of metal forming and welding.

Job description:

Incremental Sheet Forming Processes

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The final selection of candidates for the open positions will be subject to a decision from FCT.

Vacant posts: 1

Type of contract: Contrato a termo certo

Job country: Portugal

Job city: Lisboa

Job company/institute: Instituto Superior Tecnico

Application deadline: 17 Setembro 2008

(The Application's deadline must be confirmed on the Job Description)

2. Dados de contactos da organização

2. Organization contact data

Organization/institute: Instituto Superior Técnico-Instituto de Engenharia

Mecânica

Address:

Av. Rovisco Pais, 1

Lisboa - 1049-001

Portugal

Email: carlosmotasoaes@dem.ist.utl.pt

Website: <http://www.idmec.ist.utl.pt/>

3. Habilitações académicas

3. Required education Level

Degree: PhD - in related areas of the application field with scientific publications and previous research experience are required in the application field

Degree field: Engineering

4. Línguas exigidas

4. Required languages

Language: English

Priority: Normal

Reading: Good

Writing: Good

Comprehension: Good

Conversation: Good

5. Experiência exigida em investigação

5. Required research experience

Main Research Field: Engineering

Research Sub-Field: Mechanical engineering

Years of Research Experience: 3 years

6. Juri

6. Selection Committee

Name: [Carlos A. Mota Soares](#)

Name: [Luís Braga Campos](#)

Name: [John T. McMullan](#)

Name: [Tony Atkins](#)

Name: [J. N. Ready](#)