Research Fund for Coal and Steel

Infoday
Opportunities under RFCS
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Research and Development
Agenda

1 – ISQ Overview

2 – ISQ participation in RFCS

3 – Participation in Technical and Working Groups

4 – Project Evaluation & Evaluator perspective

5 – How to prepare a proposal
Working in the Name of Innovation, Technological, Development and Quality since 1965
ISQ Profile

• Founded in 1965;
• Privately owned, being a non profit technical and scientific association;
• Headquarters/Delegations: Taguspark, Porto, Sines, Castelo Branco
• Two hundred company members;
• Around 800 staff teamed with customers and partners;
• Turnover: 80 M€ (2013);
• Operating in 20 countries worldwide
ISQ Operating Axles
Main Activity Areas

Vertical Areas

- Technical Inspections;
- Sustainable Development (Safety, Environment and Energy);
- Maintenance and Structural Integrity;
- Civil Construction;
- Mechanical construction;
- Non Destructive Control;

Transversal Areas

- Laboratories;
- Training
- R&D
Supporting Laboratories

21 certified Labs NP/EN 17025

LABCAB
Laboratory of Electrical Cables Testing

LABEL
Laboratory of Electrical Equipments Testing

LABEND
Laboratory of Non Destructive Testing

LABET
Laboratory of Thermo Dynamical Testing

LABMEC
Laboratory of Mechanical Behaviour

LABMETRO
Laboratory of Metrology

LABMM
Laboratory of Metallurgy and Materials

LABQUI
Laboratory of Environment and Chemistry

LABRD
Laboratory of Acoustic & Noise Testing

LABCEM
Laboratory of Electromagnetic Compatibility Testing

Other Laboratories (Non accredited):
Laboratory of Concrete Testing
Laboratory of Anticorrosion Protective Coatings
Welding & Robotics
High Density Beams

Aerospace Structural Centre in Castelo Branco
ISQ can act in all phases of an R&D project, from the concept to the market, being the ideal partner for Innovative Technological Solutions for Industry.

“Sustainable Growth based on Technology and Innovation”
SUSTAINABLE GROWTH BASED ON TECHNOLOGY AND INNOVATION

R&D

Technological seed

Companies

Technology transfer

Increase of business volume and consolidation

National and International prestige

Internationalisation

Increase of services

SME’s support

Added value

New business opportunities
R&D BACKGROUND

Projects approved since 1985 > 300

- International Partners
  ~ 1000
  ~ 30 different countries
- National Partners
  ~ 120
- Running projects
  ~ 50

Some Partnership references:

TWI, IST, TNO, MPA, SIEMENS, PHILIPS, ROLLS-ROYCE, FIAT, VOLVO, EUROCOPTER, NLR, INASMET, ESA, CERN, ABB, BAE, AGUSTA, ALENIA, AIRBUS, GASUNI, NASA, LOCKEED MARTIN, AEROMACHI, TNO, VW, NPL, GAZ DE FRANCE, GALP, THYSSEN, RWTH....
INTERNATIONAL COOPERATION

Research & Development

Technological Development

Services
R&D BACKGROUND – RFCS
1987-2012

- Participation since 1987 in CECA and RFCS
- Around 24 projects between 2003-2012

Partnership references:
BS, Corus, Sidemor, Arcelor, Sidenor, Aceralia, Acerinox, CSM, CRM, Ascometal, Cenim, RWTH, Sidenor, VTT, Industeel, Ocas, Kimab, Inasmet, Labein, ...
ISQ in Technology Platforms & Working Groups

ESTEP – The European Steel Technology Platform

EuMaT – European Technology Platform on Advanced Engineering Materials and Technologies

MANUFUTURE – Platform on Future Manufacturing Technologies
ISQ participation in RFCS Technical Groups

TGS5 – Finishing and Coating
TGS6 – Physical metallurgy and design of new generic steel grades
TGS7 – Steel products and applications for automobiles, packaging and home appliances
TGS9 – Factory wide-control, social and environmental issues

ISQ participation in Plataform Working Groups

ESTEP – The European Steel Technology Platform

WG1 – Profit and Project Innovation
WG2 – Planet (Environment)
WG6 – Steel Solutions for Energy
Some Reference Projects

- RELOTEMP – Reuse of Low temperature heat <350º for the reduction of CO2 impact of the steel industry) (TGS9)

- SAFETOWER – Develop tailored manufacturing safe methods for wind towers erected in remote areas based on a integrated tower concept and optimal use of HSS reinforcing bars (TGS8) - CO

- INSTAP – Innovative steels grades for exhaust applications in the automotive industry (TGS7)

- CORINOX - Avoiding catastrophic corrosion failure of stainless steels (TGS6)

- LASERHARD – Laser treatment of profiled rolls (TGS4)
RFCS Evaluation Process

Phase 1 – Remote evaluation

- Proposals evaluated by 3 different evaluators on a dedicated platform (SEP) per TGS producing IER

Phase 2 – Central evaluation in Brussels

- Consensus meetings with the participation of all evaluators and the EC Officer to produce a Consensus Report

- Evaluator selection accordingly with their technical competences for each of the TGS
- Conflict of Interest are assessed
## RFCS Technical Groups for Steel (TGS)

<table>
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<th>TGS</th>
<th>Activities</th>
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<tbody>
<tr>
<td>TGS1</td>
<td>Ore agglomeration and Iron Making</td>
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<tr>
<td>TGS2</td>
<td>Steel making Processes</td>
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<td>TGS3</td>
<td>Casting</td>
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<td>Factory-wide control, social and environmental issues</td>
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RFCS Evaluation Criteria

Depends on the type of project (Research, Pilot or Accompanying Measures)

Criteria for Research and Pilot/Demonstration projects

- Scientific and technical approach (3/5)
- Innovative Content (3/5)
- Consistency of resources and quality of partnership (2/5)
- Industrial interest and scientific/technical prospects (2/5)
- Added value for the European Union and Contribution to EU Policies (2/5)

Added 1 extra point if there is compliance with at least one of the Annual Research Priorities that are established by ESTEP.

Score: 12/25
RFCS Evaluation Scoring

0 – Fails or missing/incomplete information

*Cannot be judged due to missing or incomplete information*

1 – POOR

*Inadequately addressed and/or serious weaknesses.*

2 – FAIR

*Significant weaknesses exist*

3 – GOOD

*Proposal well addressed, improvements are required*

4 – VERY GOOD

*Proposal very well addressed, improvements still possible*

5 – EXCELLENT

*Proposal addresses successfully. Shortcomings are minor.*
RFCS Evaluation Criteria

1 - Scientific and technical approach

Compliance with the objectives of the Steel Research;

Quality of the concept, the project objectives and proposed approach.

2 - Innovative Content

Innovative character face to the state of the art; Contribution to the technological advances. Technical risks and mitigation measures.

3 - Consistency of resources and quality of partnership

Quality of the work programme and methodology; Deliverables and Milestones; Project scheduling; Use of resources and quality of the consortium.

4 - Industrial interest and scientific/technical prospects

Industrial impact and use of resources.

5 - Added value for the European Union and Contribution to EU Policies

Contribution at European Level of the proposed research and policies (including social and environmental).
How to prepare a RFCS proposal

- The proposal preparation follows the Guidelines for applicants and **using on-line submission**;

- Several Forms should be filled by the coordinator and partners (Part A – Administrative; Part B – Proposal description);

- Limit number of pages in Part B should be respected;
How to prepare a RFCS proposal

General recommendations

- Identify clearly the proposal concept and interest to the steel community
- The state of the art should take into consideration previous RFCS projects (vd booklet with RFCS summaries)
- The consortium should include all relevant stakeholders from the supply chain and end-user
- Prepare with time the proposal and consortium
- Deadline for submission is always in September
- Keep in mind the guidelines for applicants as well as for evaluation of proposals (put yourself into the evaluator skin)
- Proposals are evaluated face value – do not skip information that seems irrelevant but is related with the project approach or activities;
- Highlight the real need and industrial impact;
RFCS Usefull documents

- Information Package 2013 Vol I (Proposals preparation and submission)
- Guidelines for evaluation of proposals
- Abstracts of RFCS projects
- Annual priorities for Coal and Steel


Become a RFCS independent Expert

Boas propostas

Muito obrigada

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