



## OPEN CALL FOR INDUSTRIAL PROBLEMS

The Spanish Network for Mathematics & Industry (**math-in**), in collaboration with the Technological Institute for Industrial Mathematics (**ITMATI**) and the **COST Action Mathematics for Industry Network (MI-NET)**, organize the **139 ESGI (European Study Group for Industry)**.

Initiated in Oxford in 1968, the Study Groups with Industry bring together industrial scientists and academic mathematicians to work on problems affecting the industry. These Study Groups represent an internationally recognized method for technology and knowledge transfer between academic institutions and industry.

This way of interacting allows companies to familiarize with the technological capabilities and the working methods of the research groups from Applied Mathematics in Industry.

This activity is co-funded through the “**Mathematics for Industry Network**” project (<http://mi-network.org/>) within the framework of **COST Action TD1409** (<http://www.cost.eu/>). The ESGI is also co-funded by the Ministry of Economy, Industry and Competitiveness through the Thematic Network **RTMath-in and Strategic Network of Mathematics**, granted within the call “Networks of Excellence” 2016, by the Regional Ministry of Culture, Education and University Planning of the Regional Government of Galicia through the Technological Network of Industrial Mathematics (**TMATI Network**) and through **the agreement that ITMATI** has with this Regional Ministry, and by **ROMSOC** project, financed by the EU within the Horizon 2020 Research and Innovation Programme under the Marie-Sklódowska-Curie grant agreement No 765374.



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**Goal** | To offer companies the opportunity to raise industrial problems likely to be treated with mathematical technology in the fields of Numerical Simulation, Statistics and Big Data and Optimization. The aim is to look for technological solutions to industrial problems encountered in the course of daily activity in the industry, while providing access to top-tier personnel formed to solve these problems.

**Benefits for companies** | Companies will receive a written report containing the conclusions reached for their problem. On the other hand, the 139 ESGI is an ideal space for direct interaction with international mathematical researchers, belonging to internationally renowned institutions, capable of providing new approaches to real industrial problems. In addition, the selected companies will obtain with the payment of their contribution, the added benefit of becoming partner of the Spanish Network for Mathematics & Industry (math-in) for a period of one year.

**Structure** | The event will last five days and will be structured according to the following distribution:

- Day 1: Problem statement and distribution of the participants in Working Groups.
- Days 2, 3, 4: Groups work on the proposed problems.
- Day 4: Conclusions.
- Day 5: Presentation of results and preparation of the final document.

Companies just need to be present the first day to introduce the problem and the last day to attend the presentation of results.

**Date** | From **9th to 13th July, 2018**.

**Venue** | Faculty of Mathematics. Santiago de Compostela.



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**Fees** | The submission of the industrial problem is free, but there will be a charge for each problem selected by the Scientific Committee for the Study Group. The level set this year for the 139 ESGI is **800 € + VAT** (except for **math-in associated companies**, who will enjoy a reduced price of **400€ + VAT**). This is to cover all organization running costs and to ensure a proper development of 139 ESGI.

**Language** | The official language of the event will be English.

**Problems reception** | Companies interested in participating must fill in the Proposal Form and send it to [itmati@itmati.com](mailto:itmati@itmati.com) or [transferencia@math-in.net](mailto:transferencia@math-in.net) **before May 15, 2018**.

The number of problems discussed during the event is **limited**, therefore will be accepted **by strict order of reception, once obtained the approval of the Scientific Committee**.

**Scientific Committee** | The Scientific Committee appointed for the event will be in charge of evaluating the problems received in order to determine if they are suitable to be treated in a Study Group.



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