

Subject: H2020-FETHPC-02-2017 Partnership Offer

From: <usanmaz@eurohubconsultancy.eu>

Date: 06/04/2017 14:52

To: marcin.ostaszc@bsc.es

CC: "Evrin Tan" <tan@eurohubconsultancy.eu>

Dear Mr. Ostasz,

My name is Efe Usanmaz and I am composing this email on behalf of **Istanbul Technical University (ITU), Informatics Institute** regarding the H2020 call, **FETHPC-02-2017: Transition to Exascale Computing** (Future and Emerging Technologies Work Programme).

I would like to take this opportunity to explore a possible collaboration with ITU, one of the leading research-intensive technical universities in Turkey. I would like to propose ITU as a partner to your consortium should you be applying to this call.

We believe that ITU has the credentials to boost a consortium with its strong network in reaching the industry and a vast number of end users, in addition to its strong research capacity. Please kindly find further information on the Informatics Institute's skills, experience and activities in the attached [Expression of Interest](#).

The **Informatics Institute** has full potential to successfully lead work packages concerning interdisciplinary research and development organization serving in all application areas of information technologies. The Department is skilled in:

- applied research on mechanical infrastructure and thermal management of data centers;
- gathering industrial and academic partners that serve development of new computational techniques and execute computationally expensive simulations;
- applications in modelling and optimization including but not limited to limited to the energy efficiency, thermal management and reliability of data centers;
- communications, network and vertical sectors and applications consisting of the critical infrastructure and high performance computing.

The **Informatics Institute** can contribute to the FETHPC-02 topic through its expertise as follows:

- Innovative solutions to the design of mechanical infrastructure for data centers;
- Optimization through physics-based reduced order multi-scale thermal models developed in-house (e.g. Matlab);
- Holistic energy-aware optimization and management of computing, power and cooling resources for exascale computing;
- Real-time model-based prediction of thermal environment conditions in the exascale computing infrastructure.

I would like to thank you in advance for your interest, and if you are submitting a proposal we would like to collaborate with you and contribute towards forming the project outline.

In the meantime, I remain at your disposal should you have any questions or need further information.

Kindest regards,

Efe Usanmaz
Research Executive

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