

STUDENT RESEARCH FELLOWSHIP COMPETITION

Accenture Industrial Software Solutions together with the **University of Medicine, Pharmacy, Sciences and Technologies of Târgu Mureș (UMFST)** are looking for **student teams**. Each team needs to include **at least two students** (bachelor/master/PhD) enrolled at UMFST during the **entire period** of the grant (March 2019 – November 2019). One student can participate in only one project proposal.

Each team needs to propose a research topic within the scope of the following main directions:

1. Controlling industrial systems via modern technologies.
2. Engineering self-aware Internet of Things (IoT) systems via artificial intelligence.

Example research topics include, but are not limited to the following (other can be freely proposed):

- Automation solutions with applications to food industry.
- Intelligent IoT solutions for assisting disabled/elderly people.
- Monitoring and control of autonomous robots with IoT and artificial intelligence.

Project proposals will be judged by the committee based on the project's **quality, originality, complexity, technical feasibility, and applicability**. A selected number of teams will be invited for an interview and for a presentation/discussion. Finally, the committee will select for funding **a maximum number of 5 teams**.

The selected teams will each receive a scholarship of **approx. 5600 RON** that will be payed to team members in the form of individual scholarships (the exact amount will be communicated after the competition is finalized). The scholarship can be freely used to finance the work (e.g., buying equipment, travel expenses, etc.). The projects will run from March 2019 to November 2019 according to the following three phases:

- Phase I: March 2019 – May 2019.
- Phase II: June 2019 – August 2019.
- Phase III: September 2019 – November 2019.

Phase description and assessment:

- In Phase I students need to participate and present their work at the Student Scientific Conference organized by UMFST during May 2019 (additional information will be communicated to the teams). The continuation of the project shall be conditioned by the successful presentation of the project results.
- At the end of Phase II students will provide a brief technical report on the project progress. The continuation of the project shall be conditioned by the successful presentation of the project results.
- At the end of Phase III a workshop will be organized to present the final results to Accenture.

SUBMISSION: Teams need to submit one ZIP file containing the following PDF files (in English):

- The **project description** (max. **10 pages**) including: the project title, relationship to the two main directions mentioned above, proposed solution, algorithms, the team structure, roles, “work packages”, deliverables, project plan, deadlines, etc.
- The **CV** of each team member emphasizing previous experience within the project topic.
- The project proposal needs to be **signed by the team members** (a scanned copy of the signed proposal shall be included in the ZIP file).

Please send your project proposal by email until the 18th of February 2019 to the following email addresses: bela.genge@ing.upm.ro, phaller@upm.ro, adrian.duka@ing.upm.ro. A selected number of teams will be invited for an interview on a commonly agreed date (25th-28th of February 2019).

Organizing committee:

President: Conf. univ. dr. ing. HALLER Piroska (UMFST)
Members: Conf. univ. dr. ing. habil. GENGE Béla (UMFST)
Șef lucr. dr. ing. Adrian DUKA (UMFST)
Dimény Lóránt (on behalf of Accenture)

