



[Moscow Engineering Physics Institute](#) invites for a summer school in Engineering Computing (3-14 July 2017). [The school](#) aims at the solution of complex engineering problems by means of inter-coupled numerical modelling. The participants will learn the techniques and practice in use of different numerical tools for simulation of:

- conjugate heat transfer, turbulence and multiphase (CFD-codes: FlowVision, STAR-CCM+)
- thermo-mechanical stresses in process equipment (FEA code Fidesys)
- radiation (Monte-Carlo simulator MCU).

The final objective of the study is to couple all the considered codes (CFD+FEA+MC) in an integrated simulation of a complex system: [UV-disinfector](#) or a part of nuclear reactor.

This summer school is particularly suitable for those who plan to go for numerics on the graduation project.

The participation is *free of charge* and the school arranges on-site excursions to:

- research nuclear reactor [IRT-2000](#)
- neutrino water detector [NEVOD](#)
- diverse laboratory [facilities](#) from those available in summer
- Moscow is also available ☺

#### **Links:**

[Fidesys](#)

[FlowVision](#)

[STAR-CCM+](#)

[MCU](#)

#### **Economics:**

1. SIU provides travel stipend for the school (info enclosed)
2. in-campus accommodation available from MEPhI free of charge
3. an opportunity to cover airplane tickets to be clarified by students with administration.

#### **Enrollment:**

The [application form](#) is sent to Boris V. Balakin ([bbal@hvl.no](mailto:bbal@hvl.no)) before **20/04/2018**, in cover letter the student provides information on the ability to travel to Oslo and apply for Russian visa (free), otherwise a group application goes via the visa center (c.a. nok 1000/person). A separate application goes to SIU before **31/05/2017**.