

Subject: Postdoc Position, Structure-preserving
Approximation, Univ of Salerno
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The Department of Mathematics of the University of Salerno has published a call for applications for a research grant as part of the PRIN2017 project "Structure-preserving approximation of evolutionary problems" (PI: Prof. Raffaele D'Ambrosio, local coordinator: Prof. Dajana Conte).

The deadline for submitting the application is set for 21 October 2020.

The duration of the grant is 12 months. The notice is available at:

<https://web.unisa.it/en/research/research-grants/necessary-requisites?anno=2020&bando=3790>

The application form must be submitted exclusively

electronically
through the page [https://pica.cineca.it/unisa/
unisa2020-adr059/](https://pica.cineca.it/unisa/unisa2020-adr059/)

The research activities will be carried out within the PRIN2017 project "Structure-preserving approximation of evolutionary problems", which focuses on numerical structure-preserving modeling for numerous evolution problems in time, in space, with memory, deterministic and stochastic. The main activity of the research fellow will focus on the development and analysis of numerical schemes which, in addition to verifying the usual properties of accuracy, efficiency and stability, are also capable of retaining important qualitative properties of the solution of the problem in question, the geometry of the problem, any non-linear invariants. This investigation will involve deterministic and stochastic operators, with

consequent
repercussions on the peculiarity of the required
analysis, as well as
in the development of prototype mathematical software
based on the
produced numerical modeling.