

# PHD IN PHYSICS AND CHEMISTRY OF BIOLOGICAL SYSTEMS 2021

## SISSA WELCOMES APPLICATIONS FOR 5 PHD FELLOWSHIPS IN PHYSICS AND CHEMISTRY OF BIOLOGICAL SYSTEMS STARTING IN OCTOBER 2021

SISSA is a scientific centre of excellence on the international academic scene in the fields of Physics, Mathematics, and Neuroscience. With a campus located in a park with stunning views over the city and gulf of Trieste, the School offers first-rate facilities, internationally renowned faculty members, and a very lively and dynamic scientific atmosphere thanks to the presence of nearly 100 postdocs and 280 PhD students.

### PhD in Physics and Chemistry of Biological Systems

SISSA welcomes applications for 5 PhD fellowships in Physics and Chemistry of Biological Systems, starting in October 2021. The PhD Course is an innovative post-graduate program. After an eight-month intensive training period with lectures on a wide spectrum of advanced topics (statistical mechanics, polymer physics, data analysis, physical chemistry, bioinformatics, molecular simulation techniques, etc), the students start their own research activity under the supervision of a faculty member. Research is carried out in daily contact with the supervisor and collaborators.

In addition to attending colloquia and participating in regular seminars and journal clubs within the group, PhD students can also benefit from the existing collaboration with a large number of international research institutes and from the possibility to attend Summer Schools and International Workshops thanks to dedicated travel funds.

Applicants should have a good background in Physics and/or Chemistry and/or Applied Mathematics and are expected to obtain their Laurea Specialistica or equivalent degree by October 31, 2021. Applicants are selected on a competitive basis, by a written and oral exam and taking into consideration their CVs, undergraduate transcripts, and reference letters. SISSA can cover, in full or in part, the expenses for taking part to the exam. Please contact [phd@sisa.it](mailto:phd@sisa.it) for further information.

### Current research topics include:

- Structural bioinformatics
- Statistical mechanics of complex molecular systems
- Biomolecular simulations
- Simulations of rare events
- Data science of complex and biomolecular systems
- Polymer physics
- Active matter

Applications can be presented from January onwards and candidates will be selected shortly after the deadline of **March 16**. Written and oral exams will take place remotely on **March 29 and 30**. In case of vacancies, August 25 is the deadline for a second, independent selection.



**SISSA**  
**40!**



PhD  
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