

## Ph.D. student positions in Organic / Material / Physical chemistry

We invite applications for a Ph.D. positions in the Research group of Prof. Vladimír Šindelář in three different fields

### Organic chemistry

The Ph.D. project will focus on the synthesis of new bambusuril derivatives with particular number of functional groups, which would allow further application of these macrocycles for anion sensing, anion transport, and others.

### Material chemistry

The Ph.D. project will focus on the attachment of bambusuril macrocycles on polymers or solid supports in order to prepare materials for anion extraction or stationary phases for chiral HPLC columns.

### Physical chemistry

The Ph.D. project will focus on the investigation of binding properties between bambusuril receptors and various anions. The stability and thermodynamic parameters of these supramolecular complexes will be evaluated mainly by isothermal titration calorimetry.

### RECETOX Ph.D. student position

- 4-year Ph.D. programme with financial support for 4 years
- Interdisciplinary scientific topics
- Supervision by experienced mentors and excellent scientists and tailored study plan
- Excellent and state-of-the-art research infrastructure
- International mobility and internships
- International and friendly environment
- Courses developing the transferable skills

### Candidate profile

- Complete MSc. or equivalent degree with the area related to the field of selected Ph.D. position
- Ability to work independently but as a team member
- Good knowledge of English, both oral and written

### Application

Candidates should submit the application including (i) curriculum vitae, (ii) motivation letter, (iii) contacts of two persons who might provide references directly to **Prof. Vladimír Šindelář** (for application use this email: [phdsindelar@gmail.com](mailto:phdsindelar@gmail.com))

Deadline for applications is **August 1, 2019**. After this deadline, the best candidates will be invited for on-line interview. Starting date of the Ph.D. is flexible, but it is expected during **fall 2019 / winter 2020**.



### Further information

Research Group of Vladimír Šindelář  
[www.supramolecular.sci.muni.cz](http://www.supramolecular.sci.muni.cz)