

## **Competition for the Ph.D. Scholarship For the Contractor of the Research Project**

**INSTITUTION:** Institute of Low Temperature and Structure Research, Polish Academy of Science

**THE CITY:** Wrocław

**POSITION:** Ph.D. student - contractor of the research project

**SCIENTIFIC DISCIPLINE:** chemistry, physics and related fields

**DATE OF ANNOUNCEMENT:** 2 August 2018

**DEADLINE FOR SUBMITTING OFFERS:** 17 September 2018

**DATE OF COMPETITION RESULTS:** 25 September 2018

**LINK TO THE SITE:** <http://www.int.pan.wroc.pl>

**KEYWORDS:** double perovskites, rare earth elements, transition metal elements, ceramics

Institute of Low Temperature and Structure Research, Polish Academy of Science (INTiBS PAN) in Wrocław announces a competition for the Ph.D. scholarship for the contractor of the research project entitled “New Hosts for Transparent Ceramics” in the area of synthesis and physicochemical research of nanoluminophores. Carried out on behalf of the National Science Center as part of the OPUS 13 competition (project number 2017/25/B/ST5/02670) in the Department of Optical Spectroscopy. The scientific objective of the project is to develop methods for the synthesis of new polycrystalline matrices and investigate them with spectroscopic techniques, and then to attempt to obtain transparent or translucent ceramics. The amount of the scholarship is 3000 PLN per month.

### **The Ph.D. student duties include:**

- Work in the chemical laboratory and synthesis of the samples,
- Measurements of spectroscopic properties of the obtained double perovskite materials, including measurements of absorption, emission and excitation spectra,
- Development and interpretation of the obtained experimental results,
- Participation in writing scientific articles,
- During the 3rd year of Ph.D. scholarship, preparation of the Preludium Grant application and then sending this application to the National Science Center,
- Writing a doctoral dissertation and defense a doctoral thesis.

### **Requirements:**

- A master's degree in chemistry or physics or a related field, but obtained no later than a year ago.
- Experience in measurements of excitation and emission spectra and quantum efficiency,
- Experience in handling spectrophotometers (knowledge of the use of other laboratory equipment ),
- Taking up the interview for the Ph.D. studies of the INTiBS PAN,
- Good knowledge of English (knowledge of other foreign languages would be an advantage).

**By acceding to the competition, the candidate must provide:**

- Application letter to the Director of the Institute for admission to Ph.D. studies (containing information whether the candidate has given practice/internships in the Institute and what subject and, if any, with which supervisor would like to do a Ph.D.),
- Personal questionnaire, which includes: Name (names) and surname, First names of parents, Date of birth, Citizenship, Place of residence (address for correspondence), E-mail/telephone, Education (school name and year of graduation, occupation, specialty, professional title), The course of previous employment (period of employment, occupied positions): Additional skills, interests, knowledge of foreign languages. At the end of the questionnaire the applicant should add:
  - I declare that the data contained in this questionnaire are in accordance with the passport series, the number issued by...
  - I agree to the processing of personal data necessary to carry out the recruitment process following the Act of August 29, 1997, on the protection of personal data (Journal of Laws of 2002 No. 101, item 926, as amended)
  - (place and date) (signature of the applicant)
- CV,
- Diplomas: bachelor and master's graduation (if the candidate already has a diploma).
- Copy of the entire Bachelor and Master studies index, or Bachelor's and Master's degree supplement with grades from whole studies, or confirmed by the dean's office of the student assessment card from all years of Bachelor's and Master's studies,
- One photo,
- Photocopy of the passport - in the case of persons who are not Polish citizens,
- Diploma thesis supervisor recommendations.

**APPLICATION, PLEASE DIRECT TO THE INTIBS PAN SECRETARIAT by e-mail ([intibs@intibs.pl](mailto:intibs@intibs.pl)), and to Prof. Dr. hab. Przemysław Dereń, ([p.deren@intibs.pl](mailto:p.deren@intibs.pl)), with the note "Competition for the Ph.D. scholarship in the OPUS 13 project in the Department of Optical Spectroscopy".**