



## NOTICE

### BASIC INFORMATION

Position available within the research project entitled: "Direct, sensitive and selective fluorescence "turn-off" detection of metallic contaminants from water using photoluminescent gold nanoclusters", project number PN-III-P1-1.1-TE-2019-0700

**Title\*:** *research assistant (PhD student)*

**Offer Description\*:** Part-time research assistant position working in the field of controlled synthesis and characterization of gold nanoclusters for detection applications

### Researcher Profiles \*:

- |   |   |
|---|---|
| <input checked="" type="checkbox"/> First Stage Researcher (R1) | <input type="checkbox"/> Recognised Researcher (R2) |
| <input type="checkbox"/> Established Researcher (R3)            | <input type="checkbox"/> Leading Researcher (R4)    |

**Research field \*:**

**Type of Contract\*:**

**Job Status \*:**

**Hours Per Week\*:** 20

**Application Deadline \*:** 2.10.2020

**Envisaged Job Starting Date:** 15.10.2020

**Is the job funded through a EU Research Framework Programme? \***

**Is the Job related to staff position within a [Research Infrastructure](#)? (se bifează opțiunea)**

**How to Apply \*:**

**Contact person\*:** CRĂCIUN Ana-Maria

\* - Câmpuri obligatorii

E-mail address\*: ana.gabudean@ubbcluj.ro

Internal Application form needed (.pdf files) (se bifează opțiunea, dacă este cazul)

#### HIRING INFO & WORK LOCATION

Number of positions available\*: 1

Company/Institute\*: Interdisciplinary Research Institute in Bio-Nano-Sciences, Babes-Bolyai University

Department\*: Nanobiophotonics and Laser Microspectroscopy Center

#### REQUIREMENTS

Required Education Level (se completează unul sau mai multe câmpuri, după caz)

Main Research Field\*:

Level\*:

Main Research Field\*:

Level\*:

Skills/Qualifications: experience in controlled synthesis and characterization of gold nanoclusters for detection applications

Specific Requirements: PhD student in Physics

*minimum 2 ISI research articles*

Required Languages (se completează unul sau mai multe câmpuri, după caz)

Language \*

Level\*

Language \*

Level\*

**Required Research Experience** *(se completează unul sau mai multe câmpuri, după caz)*

Research Field \*

Years of Research Experience \*

Research Field \*

Years of Research Experience \*

#### **ADDITIONAL INFO**

**Website for additional job details:** *(câmp opțional)*

**Benefits:** *(câmp opțional)*

**Selection process:** *application evaluation (eliminary) and interview (a ppt. presentation on the experience in the position research field)*

**Email for additional job details:** [ana.gabudean@ubbcluj.ro](mailto:ana.gabudean@ubbcluj.ro)

## Research and subresearch fields

**Agricultural Sciences**

1. Agricultural products
2. Agronomics
3. Enology
4. Forest sciences
5. Other
6. Phytotechny
7. Soil science
8. Temperate agriculture
9. Tropical agriculture
10. Zootechnics

**Anthropology**

1. Communication anthropology
2. Cultural anthropology
3. Ethnology
4. Medical anthropology
5. Other
6. Physical anthropology
7. Social anthropology

**Architecture**

1. Design
2. Landscape architecture
3. Naval architecture
4. Other

**Arts**

1. Arts management
2. Fashion studies
3. Fine arts
4. Handicrafts

5. Other
6. Performing arts
7. Visual arts

**Astronomy**

1. Astrophysics
2. Cosmology
3. Other
4. **Biological sciences**
5. Biodiversity
6. Biological engineering
7. Biology
8. Botany
9. Laboratory animal science
10. Nutritional sciences
11. Other
12. Zoology

**Chemistry**

1. Analytical chemistry
2. Applied chemistry
3. Biochemistry
4. Combinatorial chemistry
5. Computational chemistry
6. Heterogeneous catalysis
7. Homogeneous catalysis
8. Inorganic chemistry
9. Instrumental analysis
10. Instrumental techniques
11. Molecular chemistry
12. Organic chemistry

13. Other
14. Physical chemistry
15. Reaction mechanisms and dynamics
16. Solar chemistry
17. Structural chemistry

**Communication sciences**

1. Audiovisual communication
2. Business communication
3. Editing
4. Graphic communication
5. Journalism
6. Media studies
7. On-line information services
8. Other
9. Public relations
10. Publishing
11. Science communication
12. Speech communication

**Computer science**

1. 3 D modelling
2. Autonomic computing
3. Computer architecture
4. Computer hardware
5. Computer systems
6. Cybernetics
7. Database management

8. Digital systems
9. Informatics
10. Modelling tools
11. Other
12. Programming
13. Systems design

### **Criminology**

### **Cultural studies**

1. African studies
2. American studies
3. Ancient studies
4. Anglo Saxon studies
5. Arabic studies
6. Asian studies
7. Byzantine studies
8. Coptic studies
9. Eskimo studies
10. European studies
11. Islamic studies
12. Jewish studies
13. Middle Ages studies
14. Middle East studies
15. Oriental studies
16. Other
17. Regional studies
18. Renaissance studies
19. Russian studies
20. Third world studies

### **Demography**

### **Economics**

1. Administrative sciences
2. Agricultural economics
3. Applied economics
4. Banking
5. Business economics
6. Cadastral survey
7. Commercial economics

8. Construction economics
9. Consumer economics
10. Cyclical economics
11. Econometrics
12. Economic policy
13. Economic systems
14. Economic theory
15. Economics of development
16. Environmental economics
17. Financial science
18. Fishery economy
19. Food economics
20. Health economics
21. Home economics
22. Industrial economics
23. International economics
24. Knowledge economy
25. Labour economics
26. Labour market economics
27. Land economy
28. Local public economics
29. Macroeconomics
30. Management studies
31. Marketing
32. Microeconomics
33. Other
34. Political economy
35. Production economics
36. Social economics
37. Tourism studies
38. Transport economics
39. Valuation
40. Veterinary economics

### **Educational sciences**

1. Education
2. Learning studies
3. Other
4. Research methodology
5. Teaching methods

### **Engineering**

1. Aerospace engineering
2. Agricultural engineering
3. Biomaterial engineering
4. Biomedical engineering
5. Chemical engineering
6. Civil engineering
7. Communication engineering
8. Computer engineering
9. Control engineering
10. Design engineering
11. Electrical engineering
12. Electronic engineering
13. Geological engineering
14. Industrial engineering
15. Knowledge engineering
16. Maritime engineering
17. Materials engineering
18. Mechanical engineering
19. Microengineering
20. Nuclear engineering
21. Other

22. Precision engineering
23. Process engineering
24. Project engineering
25. Simulation engineering
26. Sound engineering
27. Surveying
28. Systems engineering
29. Thermal engineering
30. Water resources engineering

#### **Environmental science**

1. Earth science
2. Ecology
3. Global change
4. Natural resources management
5. Other
6. Water science

#### **Ethics in health sciences**

#### **Ethics in natural sciences**

#### **Ethics in physical sciences**

#### **Ethics in social sciences**

#### **Geography**

1. Cartography
2. Economic geography
3. Geopolitics
4. Historical geography
5. Human geography
6. Other
7. Regional geography
8. Social geography

#### **Geosciences**

1. Geology
2. Hydrology
3. Other

#### **History**

1. Ancient history
2. Archaeology
3. Art history
4. Church history
5. Contemporary history
6. Economic history
7. Genealogy
8. Heraldry
9. History of agriculture
10. History of design
11. History of law
12. History of performance
13. History of philosophy
14. History of religions
15. History of science
16. History of social sciences
17. Local history
18. Medieval history
19. Modern history
20. Music history
21. Numismatics
22. Other
23. Paleography
24. Political history
25. Prehistory
26. Sigillography
27. Social history

#### **Information science**

1. Archivistics
2. Diplomats
3. Documentation
4. Information management
5. Library science
6. Other

#### **Juridical sciences**

1. Agrarian law
2. Canon law

3. Comparative law
4. Criminal law
5. Environmental law
6. European law
7. Finance law
8. Fiscal law
9. Health law
10. Informatic law
11. International law
12. Judicial law
13. Juvenile law
14. Labour law
15. Media law
16. Medical law
17. Other
18. Private law
19. Public law
20. Roman law
21. Social law
22. Transportation law

#### **Language sciences**

1. Languages
2. Linguistics
3. Other
4. Philology

#### **Literature**

1. African literature
2. American literature
3. Asian literature
4. Austronesian literature
5. Comparative literature
6. European literature
7. Greek literature
8. Hamito-semitic literature
9. Literary criticism
10. Other
11. Writing

#### **Technology**

1. Biotechnology
2. Chemical technology
3. Energy technology
4. Environmental technology
5. Future technology
6. Electrical technology
7. Dating techniques
8. Communication technology
9. Computer technology
10. Construction technology
11. Graphic techniques
12. High vacuum technology
13. Space technology
14. Standardisation of technologies
15. Telecommunications technology
16. Sound technology
17. Safety technology
18. Production technology
19. Quantum technology
20. Remote sensing
21. Transport technology
22. Vacuum technology
23. Water technology
24. Pharmaceutical technology
25. Other
26. Knowledge technology
27. Laboratory technology
28. Marine technology
29. Internet technology
30. Interface technology
31. Industrial technology
32. Information technology

33. Instrumentation technology
34. Materials technology
35. Measurement technology
36. Nanotechnology
37. Nuclear technology
38. Optronics
39. Mining
40. Military technology
41. Medical technology
42. Micro-technology

#### **Religious sciences**

1. Biblical studies
2. Church studies
3. Comparative religion
4. Non-Christian religions
5. Theology
6. Other
7. Pastoral studies

#### **Sociology**

1. Sociology of religion
2. Urban sociology
3. Sociology of labour
4. Sociology of enterprise
5. Social shaping of technology
6. Societal behaviour
7. Socio-economic research
8. Social changes
9. Rural sociology
10. Educational sociology
11. Macrosociology
12. Other

#### **Psychological sciences**

1. Psychology

2. Psychoanalytic studies
3. Behavioural sciences
4. Cognitive science
5. Other

#### **Neurosciences**

1. Neurology
2. Neurophysiology
3. Neuropsychology
4. Neuroinformatics
5. Neurochemistry
6. Neurobiology
7. Other

#### **Pharmacological sciences**

1. Clinical pharmacology
2. Cosmetology
3. Pharmacognosy
4. Pharmacy
5. Toxicology
6. Veterinary pharmacology
7. Other

#### **Mathematics**

1. Combinatorial analysis
2. Computational mathematics
3. Discrete mathematics
4. Chaos theory
5. Applied mathematics
6. Algebra
7. Algorithms
8. Geometry
9. Mathematical analysis
10. Statistics
11. Probability theory
12. Other

13. Mathematical logic
14. Number theory

### **Philosophy**

1. Ethics
2. Metaphysics
3. Epistemology
4. Aesthetics
5. Other
6. Logic
7. Philosophical anthropology
8. Phenomenology
9. Philosophy of law
10. Philosophy of science
11. Semiotics
12. Systematic philosophy

### **Medical sciences**

1. Veterinary medicine
2. Other
3. Medicine

### **Political sciences**

1. Science and society
2. Policy studies
3. Public awareness of science
4. Public policy
5. Other
6. Governance

### **Physics**

1. Other
2. Quantum mechanics
3. Relativity
4. Solid state physics
5. Optics
6. Neutron physics
7. Electronics

8. Mathematical physics
9. Metrology
10. Statics
11. Statistical physics
12. Surface physics
13. Thermodynamics
14. Electromagnetism
15. Condensed matter properties
16. Acoustics
17. Classical mechanics
18. Computational physics
19. Chemical physics
20. Biophysics
21. Applied physics