

ANNOUNCER'S FORM

INSTITUTION: Central Mining Institute – National Research Institute

CITY: Katowice

POSITION: **Assistant (full-time employment)**

SCIENTIFIC FIELD: environmental engineering, mining and power engineering

ANNOUNCEMENT DATE: **17.01.2024**

TENDER SUBMISSION DATE: **11.02.2024**

WEBSITE LINK: www.gig.eu

KEYWORDS: assistant, environmental engineering, mining, power engineering, geological engineering.

Workplace:

Central Mining Institute - National Research Institute

Department of Energy Saving and Air Protection (SO)

43-190 Mikołów, Podleska 72

Scope of work:

1. Conducting scientific, research and development and publishing activities in the area of: thermochemical fuel processing technology (gasification, pyrolysis, liquefaction), including biomass, waste and coal;
2. Conducting analyzes regarding the possibility of using fuel conversion products in the chemical industry and purification and management of by-products (process waste, sewage, residual gases);
3. Conducting research in the field of hydrogen production from conventional and alternative fuels;
4. Performing laboratory physicochemical analyzes of gaseous, liquid and solid products using chromatographic (GC-MS) and spectroscopic techniques (ICP-MS, ICP-OES);
5. Conducting data analysis using advanced statistical programs;
6. Implementation of national and international research projects and market works;
7. Carrying out analyzes and evaluation of technologies in the field of energy saving and air protection;
8. Cooperation with domestic and foreign research institutions and external companies.

Requirements for a candidate applying for the position of an assistant:

1. Higher education in chemical technology, chemical engineering or related fields;
2. Theoretical and practical knowledge of issues related to chemical technology;
3. Ability to plan an experiment and analyze data using advanced statistical programs;
4. Proven ability to analyze data in the Python programming environment;
5. Experience in testing by-products of thermochemical processing of solid fuels, biomass and waste raw materials;
6. Documented publication achievements in the field of chemical technology;
7. Ability to perform chemical analyzes using, a. o. ICP-MS, ICP-OES;
8. Experience in implementing national and international research projects;
9. Knowledge of English at a minimum level B2

List of required documents:

- 1) application for employment as an assistant,
- 2) CV,
- 3) copy of the higher education diploma,
- 4) description of professional experience,
- 5) information on the candidate's scientific interests and current achievements in research and development (list of publications, obtained patents, participation in national and

- international research projects, etc.),
- 6) candidate's declaration on the acceptance of the contest terms and conditions and a personal survey of a candidate applying for employment.

Tender submission term and location:

Tenders with the full set of documents should be e-mailed to: rekrutacja@gig.eu, filed personally at the GIG General Administrative Office or mailed to: Główny Instytut Górnictwa – Dział Prawno-Organizacyjny i Kadr, Plac Gwarków 1, 40-166 Katowice;
Application deadline is 11.02.2024r.

The tenders should be marked as: 2/2024 – Assistant – Department SO