



The Institute of Natural Resources NPC (INR) is a Pietermaritzburg-based non-profit organisation that works towards the wise use of natural resources in pursuit of sustainability for the good of the environment and society. We do this through multidisciplinary action research and the dissemination of knowledge. We work closely with community partners in creating solutions that are both practical and easily implemented. In addition, we play an advisory role to government, communities and the private sector.

The organisation has the following position that we would like to fill in 2024:

SCIENTIST: SPATIAL HYDROLOGIST

The INR is seeking a scientist / senior scientist skilled in hydrology specialising in the application of hydrological and/or hydraulic modelling tools and analysis including terrestrial and freshwater aquatic ecosystems. Applicants should have a minimum of an MSc in Hydrology, GIS, Ecology, Geography, Environmental Engineering, or cognate qualification, and at least 2 years of professional / applied research experience.

The position requires the following expertise / skill-sets / attributes:

- Evidence of experience in the application of environmental hydrological modelling tools (e.g. ACRU, SWAT, HEC-RAS, TOPKAPI, and RS-EO);
- Experience in the application of modelling tools to analyse catchment dynamics including land cover, water flows, water quality, erosion and sedimentation and impacts on ecosystem functioning;
- Data acquisition, management, and analysis including modelled, remote sensed and field-derived data;
- Ability to conduct / guide field surveys and data collection to support model development and validation;
- Willingness to work in multi-disciplinary teams;
- Ability to communicate, report and present information;
- Willingness to develop proposals and secure project funding;
- The ability to work independently with an interest in personal and professional growth;
- Willingness to travel, with a valid Driver's licence and driving experience;

The following evidence/attributes will be an added advantage:

- Experience applying hydrological / hydraulic modelling tools at catchment and regional scales;
- Evidence of applying GIS and remote sensing tools
- Competence in data programming languages

Interested persons are invited to apply by sending a letter of motivation that clearly addresses the requirements of the position and a detailed curriculum vitae to recruitment@inr.org.za. The subject line should state '**Scientist: Spatial Hydrologist**'.

This position will be permanent, with a six-month probationary period. Remuneration will be on a full Cost to Company basis.

The Application Closes on 23 August 2024.