

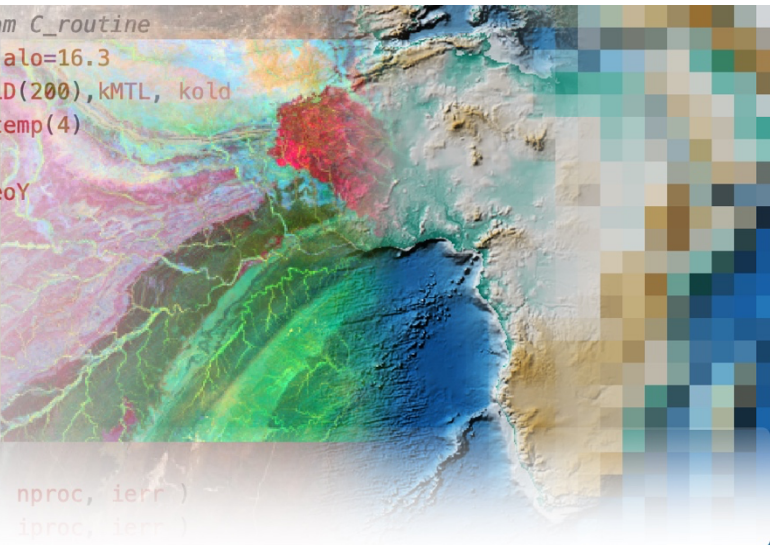
```
! Variable to be sent to the Ketcham C_routine
real(kind = c_double),parameter :: alo=16.3
real(kind = c_double) :: kAFTA,kFTLD(200),kMTL, kold
real(kind = c_float) :: ktime(4),ktemp(4)

real(kind=c_double) :: dfGeoX, dfGeoY
real(kind=c_double) :: elevation
real(kind=c_double) :: rx, ry

include "Cinterfaces.h"

debug=.TRUE.

call MPI_Init(ierr )
call MPI_Comm_size( MPI_COMM_WORLD, nproc, ierr )
call MPI_Comm_rank( MPI_COMM_WORLD, iproc, ierr )
```



## 2x Lecturers/Assistant Professors in Computational Geoscience

University of Glasgow, Both Permanent Positions

Full details and applications: <https://www.gla.ac.uk/explore/jobs/> using vacancy reference: 062527

Closing Date: 31 August 2021

**For additional information please contact:**

Professor Roderick Brown [roderick.brown@glasgow.ac.uk](mailto:roderick.brown@glasgow.ac.uk)

We are looking to hire two geologists/geoscientists with an exceptional understanding of the rapidly evolving computational geoscience field. They will have advanced computer coding expertise and knowledge as well as expertise in designing, coding and implementing forward models of physical solid Earth processes (e.g. global-scale fully-coupled geodynamic and earth surface process models, or models of chemically reactive, multiphase flow etc) and/or in advanced state-of-the-art geospatial data science approaches (e.g. machine learning using big data, evolutionary model optimisation techniques etc).

They will be emerging leaders in modelling of global/planetary to basin scale processes, mineralisation, geodynamic/geomorphic Earth evolution, coupling of planetary interior and surface processes or other relevant geoscience fields. We are especially interested in people who's computational expertise and skills might have relevance to future sustainable resources (e.g. critical metals) and renewable energy.

These appointments are part of GES's ongoing strategic investment in computational geoscience and geospatial data science within the School.

## **Job Purpose**

To carry out research and scholarship in Computational Geoscience, deliver an excellent student experience through teaching and assessment, and contribute to management and administration. At Grade 8 demonstrate leadership and contribute to academic and strategic management and to advance knowledge exchange, public understanding and outreach.

## **Main Duties and Responsibilities**

Perform the following range of activities:

1. Develop, lead and sustain personal and group research aligned appropriately to School/College research strategy.
2. Enhance your research profile, reputation and esteem through:
  - Establishing and sustaining a track record of independent and joint publications of international quality in high quality refereed journals, generating research impact in terms of economic/societal benefit;
  - Presentation at international and national conferences and at internal/external seminars, colloquia and workshops;
  - Identification of potential funding sources and the development of proposals to secure funding from internal/external bodies to support future research;
  - Developing and maintaining collaborations with colleagues across the School/College/University and external Academic and Industrial Partners;
  - Contribution to team/group meetings/seminars/workshops and activities to enhance the wider knowledge, outputs and culture of the School/College.
3. Contribute to the planning, organisation and delivery of high-quality teaching, supervision and assessment activities across under/post-graduate programmes within the Subject/School.
4. Contribute to the on-going development and design of under/post-graduate curricula, to ensure a research-led and scholarly approach to student learning and assessment in the discipline and/or profession.
5. Manage a variety of academic administrative activities, including timely delivery of effective and constructive feedback on assessment, and provision of pastoral support.
6. Contribute to the management and organisational duties of the School, as assigned by the Head of School.
7. Engage in personal, professional and career development.
8. Contribute to the enhancement of the University's international profile in line with the University's Strategic Plan: World Changers Together.

## **Job Features**

The School of Geographical and Earth Sciences (GES) has 35 academic staff, supports more than 60 research students, and delivers teaching to approximately 700 undergraduate and postgraduate taught students. GES has two research groups, Earth Systems and Human Geography, which have a combined annual research income of more than £1.5 million.

The Earth Systems Research Group operates through three interrelated themes: Dynamic Earth & Planetary Evolution, Global Landscapes & Climate Change, and Life's interactions with Dynamic Environments. The group is well equipped with equipment for research in the laboratory and field. With regards to computing infrastructure, GES has a moderate (256 core) HPC cluster in-house and University of Glasgow staff and research students also have direct access to the Archie-WeSt HPC facility which comprises of over 2500 INTEL Skylake 6138 cores for distributed parallel computing, two 3TB RAM large memory nodes and 210TB of high performance GPFS storage [<https://www.archie-west.ac.uk/>].

GES offers three undergraduate degree programmes, and nine taught Masters programmes, and the school's teaching is consistently highly rated. Geology was 6th in the Complete University Guide 2022 with Geography and Environmental Science 11th, and in the 2020 National Student Survey GES had the most highly rated Geology programme in the UK, with a score of 100% for overall student satisfaction, and Human Geography a score of 98%.

This post is full time (35 hours per week) and is offered on an open-ended basis. The successful applicant of this post will be enrolled onto the University's Early Career Development Programme (ECDP). This will provide you as an early career academic staff member to be developed and supported over a specified timeframe to facilitate the advancement of your academic career.

Information on the programme can be found on our website at:  
<https://www.gla.ac.uk/myglasgow/humanresources/all/pay/ecdp/>

New entrants to the University will be required to serve a probationary period of 6 months.

The successful applicant will be eligible to join the Universities' Superannuation Scheme. Further information regarding the scheme is available from the Superannuation Officer, who is also prepared to advise on questions relating to the transfer of Superannuation benefits.

Relocation assistance will be provided where appropriate.

All research and related activities, including grants, donations, clinical trials, contract research, consultancy and commercialisation are required to be managed through the University's relevant processes (e.g. contractual and financial), in accordance with the University Court's policies.

It is the University of Glasgow's mission to foster an inclusive climate, which ensures equality in our working, learning, research and teaching environment.

We strongly endorse the principles of Athena SWAN, including a supportive and flexible working environment, with commitment from all levels of the organisation in promoting gender equality.

The University of Glasgow, charity number SC004401.