SUSTech Southern University of Science and Technology

南方科技大学 SOUTHERN UNIVERSITY OF SCIENCE AND TECHNOLOGY

地球与空间科学系 DEPARTMENT OF EARTH AND SPACE SCIENCES

GGC5039 / ESS419

Academic Communication

Section 5-2: Writing proposals and applications (Job/Grad School)

Instructor: Dikun Yang

Term: Fall 2020-2021

Outline

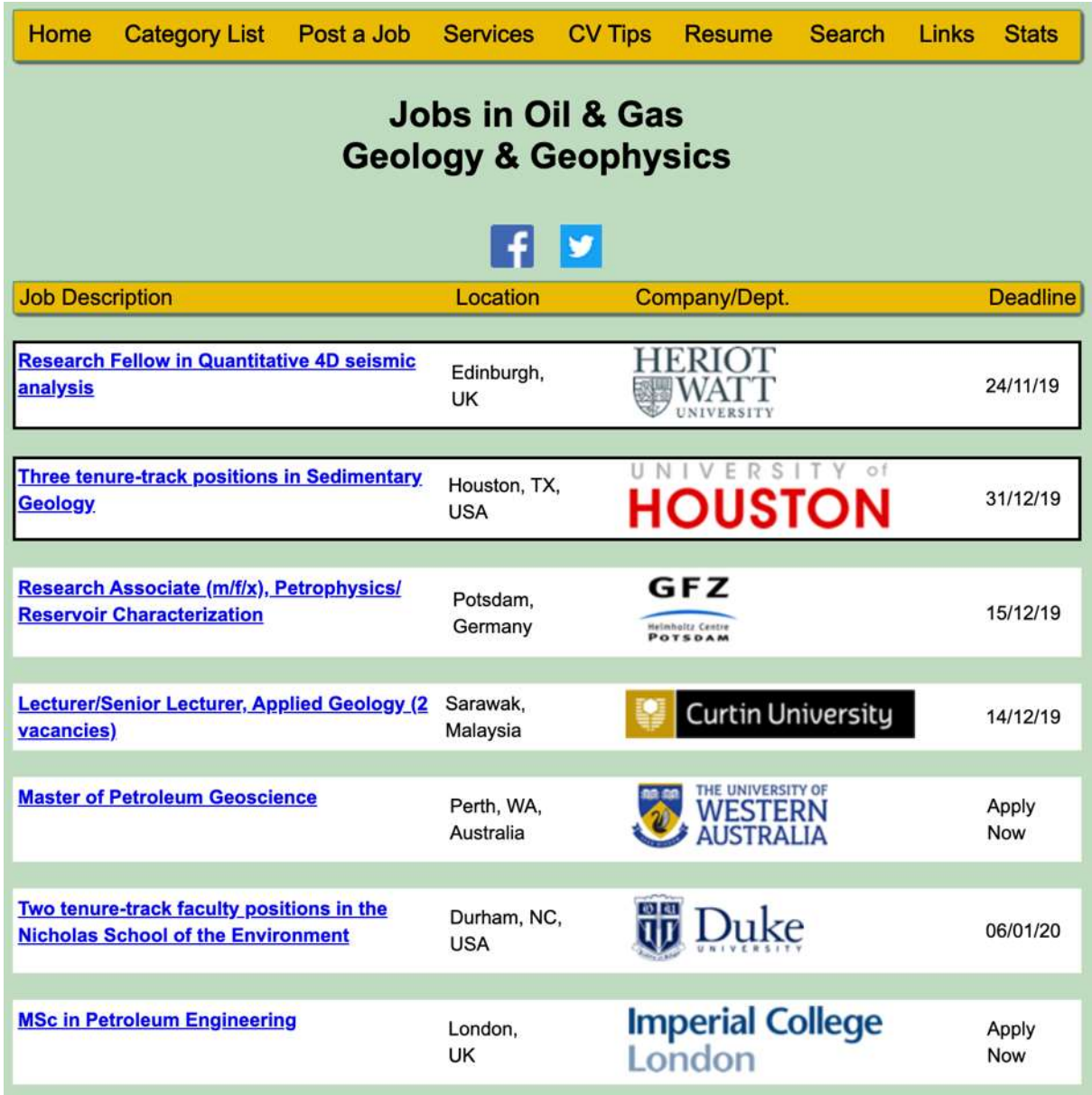
- Section 1: **Introduction** (2 hr)
- Section 2: **International communications** (2 hr)
- Section 3: **Writing and publishing** (8 hr) – Assignment 15%
- Section 4: **Presentations at conferences** (6 hr) – Assignment 15%
- Section 5: **Writing proposals and applications** (6 hr) – Assignment 15%
- Section 6: **Interviews** (4 hr) – Assignment 15%
- Section 7: **New media** (2 hr) – Assignment 15%
- Section 8: **Integrated practice** (2 hr) – Final defense/participation 25%

Persuasive Writing

- Scholarship/fellowship applications (past or future)
  - I have done or will do amazing things that you care
  - I am the person you want to reward or invest in
- **Job or graduate school applications (past < future)**
  - I qualify
  - I can and will do the work well
- Grant applications (past < future)
  - I have an idea worth investigating
  - I have good track record
  - You should invest

Job/Position Posting

- Job search websites
  - http://www.indeed.com
  - http://talent.sciencenet.cn/
  - https://earthworks-jobs.com/
  - https://findajob.agu.org/jobs/
- Employer websites
- Mailing list
- Social media groups
- Insider information



https://findajob.agu.org/job/8011506/ms-student-in-ecohydraulics-water-resources-engineering/

MS Student in Ecohydraulics/Water Resources Engineering

Send | Save | Apply

Employer	University of Kansas Department of Civil, Environmental, and Architectural Engineering
Location	Lawrence, Kansas (US)
Salary	Up to $25,000 a year + tuition
Posted	Nov 04, 2019
Closes	Dec 04, 2019
Discipline	Biogeosciences, Hydrology
Career Level	Student / Graduate
Education Level	Bachelors
Job Type	Internship
Relocation Cost	No Relocation
Sector Type	Academia

University of Kansas – Master of Science Assistantship in Water Resources Engineering.

The Department of Civil, Environmental, and Architectural Engineering at the University of Kansas is pleased to announce the availability of a funded MS assistantship (w/ potential to expand to a PhD) in the Ecohydraulics Laboratory under the supervision of Dr. Admin Husic. The prospective student will combine concepts from hydrology, biogeochemistry, high-frequency water quality sensing, and stable isotope technology to gain a better understanding of human-environment interactions. The prospective student will utilize field, laboratory, and numerical modeling methods to achieve research goals.

Research Areas

- Coupling numerical modeling, high-frequency sensing, and source unmixing in a novel, integrated framework.Numerical modeling of sediment, nitrogen, and carbon fate and transport
- Field-based instrumentation of high-frequency sensors for water quality monitoring
- Source provenance using stable isotopes of carbon, nitrogen, hydrogen, oxygen, etc.
- Sampling of benthic algae mats for assessing spatiotemporal variability of anatoxins

Understand the Job/Position

- **Research Areas**
  - Coupling **numerical** modeling, high-frequency sensing, and source unmixing in a novel, integrated framework. Numerical modeling of sediment, nitrogen, and carbon fate and transport
  - Field-based **instrumentation** of high-frequency sensors for water quality monitoring
  - Source **provenance** using stable isotopes of carbon, nitrogen, hydrogen, oxygen, etc.
  - Sampling of **benthic algae mats** for assessing spatiotemporal variability of anatoxins
- **Qualifications**
  - A Bachelor's of Science in **Civil Engineering** or closely related field
  - Completed **coursework** in the areas of fluid mechanics, hydrology, and/or hydraulics
  - Knowledge of **programming** (e.g., MATLAB, Python) and **statistics**
  - Excellency in verbal and written **communication**

http://www.earthworks-jobs.com/jobs/gfz19113.html

GFZ

Helmholtz Centre
POTSDAM

HELMHOLTZ CENTRE POTSDAM
GFZ GERMAN RESEARCH CENTRE
FOR GEOSCIENCES

The Helmholtz Centre Potsdam - GFZ German Research Centre for Geosciences is the national research centre for Earth sciences in Germany. With approximately 1.280 employees (including visiting scientists), the GFZ is conducting interdisciplinary research on the "System Earth" and the influence of humans on the planet. As a member of the Helmholtz Association, it is part of Germany's largest science organization.

For Section 2.3 "Geomagnetism" we invite applications for a

PhD Position in Geomagnetism

Job Vacancy No. 3689

Understand the Job/Position

- **Your responsibilities:**
  - Engage in an exciting research community and analyse the most recent data from **Swarm** and other **satellite missions**
  - Derive global statistical models of **ionospheric and magnetospheric** currents
  - Present results at international **conferences**
  - Publish results in scientific, **peer-reviewed journals**
- **Your qualifications:**
  - **Master's** degree (or equivalent) in physics, geophysics, atmospheric physics, space physics, computational physics, mathematics or related disciplines
  - Experience in **programming**
  - Proficiency in written and spoken **English**

https://findajob.agu.org/job/8011423/postdoctoral-research-scholar-in-planetary-geophysics/

Postdoctoral Research Scholar in Planetary Geophysics

6 days left

ASU School of Earth and Space Exploration
Arizona State University

Employer	Arizona State University
Location	Arizona State University in Tempe, Arizona
Salary	Competitive salary, funding for travel, moving expenses, and full health insurance coverage.
Posted	Oct 23, 2019
Closes	Nov 22, 2019
Discipline	Planetary Sciences, Space Physics
Career Level	Postdoctoral
Education Level	PhD
Job Type	Full-time
Relocation Cost	Negotiable
Sector Type	Academia

Send | Save | Apply

The School of Earth and Space Exploration (SESE) at Arizona State University invites applications for a postdoctoral research scholar in Planetary Geophysics.

Applications are invited for one postdoctoral research scholar position to work in collaboration with Profs. Joseph O'Rourke and Linda Elkins-Tanton.

We seek an individual with the mathematics and physics training and expertise with scientific programming to model the surface temperature of an asteroid as it receives varying insolation over the course of the year. This work will be in service to the NASA Psyche mission and in collaboration with Prof. Elkins-Tanton. This individual will also undertake related research on the formation, evolution, and/or characterization of large asteroids and protoplanets in partnership with Prof. O'Rourke. The successful candidate will be encouraged to pursue research of their own interest and professional development in preparation for seeking a permanent position after their fellowship.

More information about the School can be found here:
https://sese.asu.edu/

The initial appointment is for one year with subsequent annual renewal for up to two additional years contingent upon satisfactory performance, the needs of the university, and availability of resources. The start date is no later than August 1, 2020. This fiscal year position comes with a competitive salary, funding for travel, moving expenses, and full health insurance coverage. Minimum qualifications include a Ph.D. in

Understand the Job/Position

- We seek an individual with the **mathematics** and **physics** training and expertise with **scientific programming** to model the surface temperature of an asteroid as it receives varying insolation over the course of the year. This work will be in service to the NASA Psyche mission and in collaboration with Prof. Elkins-Tanton. This individual will also undertake related research on the formation, evolution, and/or characterization of large **asteroids** and **protoplanets** in partnership with Prof. O'Rourke. The successful candidate will be encouraged to pursue research of their own interest and professional development in preparation for seeking a permanent position after their fellowship.
- The initial appointment is for one year with subsequent annual renewal for up to two additional years contingent upon satisfactory performance, the needs of the university, and availability of resources. The start date is no later than August 1, 2020. This fiscal year position comes with a competitive salary, funding for travel, moving expenses, and full health insurance coverage. Minimum qualifications include a Ph.D. in astrophysics, physics, planetary science, geophysics, applied math, or closely related field by the start date. Candidates must be within five years from receipt of the doctoral degree. Desired qualifications include a background in **numerical modeling of mass and energy transfer.** Experience in **numerical fluid dynamics** is strongly desired.

http://www.earthworks-jobs.com/geoscience/wsu19101.html

School of The Environment

Assistant Professor - Earth Materials

The School of the Environment at Washington State University invites applications for a nine-month, full-time tenure-track position in Earth Materials on the Pullman campus at the rank of Assistant Professor, to begin August 2020. We seek applicants who will develop an internationally recognized and externally funded program with an emphasis in one or more of the following areas: petrology, mineralogy, volcanology, magmatic processes, or tectonic processes. The School welcomes applications from both scholars beginning their careers and those whose careers are more advanced.

The SoE is home to the Peter Hooper GeoAnalytical Laboratory and the Radiogenic Isotope and Geochronology Laboratory that maintain state-of-the art capabilities in whole rock and micro-scale major and trace element analysis, U-Pb and Lu-Hf and Sm-Nd geochronology, and radiogenic and stable isotope geochemistry. Instruments in the laboratories (see: https://environment.wsu.edu/facilities/geoanalytical-lab/) include a ThermoFinnigan Neptune Plus MC-ICP-MS and Element2 ICP-MS, Teledyne Analyte 193nm excimer and NewWave Nd-YAG 213nm laser ablation systems, an Agilent 7700x quadrupole ICP-MS, three X-ray fluorescence spectrometers, and a JOEL JXA-8500 F

Understand the Job/Position

- **Required**: Earned doctorate in **Earth Materials or related** discipline at time of hire, with emphasis in one or more of the following areas: petrology, mineralogy, volcanology, magmatic processes, or tectonic processes; Record of research accomplishment as demonstrated by **peer-reviewed publications**; Potential to establish and maintain **an externally funded** research program (peer-reviewed publications and developed research agenda); Demonstrated ability and/or potential to successfully **teach and mentor** students at the graduate and undergraduate levels in the field of Earth Materials.
- **Preferred**: Ability to conduct research and graduate training in an **interdisciplinary** setting, while building on **existing strengths** within the core field of solid Earth geosciences; Ability to take a leadership role in developing research **initiatives** in the GeoAnalytical Laboratory; Ability to educate and support **under-served** groups and contribute to WSU's equity, diversity, and inclusion goals in research, teaching, mentoring, and/or service

http://www.earthworks-jobs.com/oil/ikon19091.html

Support Geoscientist (2019) - London

The Company

The Present and Future of GeoPrediction

Ikon Science Ltd, the global geoscience technology company, has numerous locations worldwide including London (Surbiton), Durham, Aberdeen, Houston, Calgary, Kuala Lumpur, Jakarta, Perth and Brazil. Ikon Science provides software & solutions to the energy industry - developing & delivering RokDoc® and iPoint software, QI Solutions, GeoPressure Consultancy & Studies, with a fresh & flexible scientific approach to create subsurface value.

The role

- You will report to the Global Geoscience Support Manager.
- The role will be based in Surbiton (SW London).
- The remit is to provide technical support for the RokDoc suite of software. In due course delivering on-site support (& possibly technical sales demos) will be expected of the successful candidate. Furthermore, delivering software training may also become a requirement of the successful candidate.
- Those wishing to be considered for the role would ideally have some previous experience of providing software support for a G&G software vendor, or experience with RokDoc usage.

Informal Inquiry Before Applying

- Who make the decision: advisor or committee?
- “Sign up” with the professors and establish personal connections
- Confirm the availability and suitability
- A trailer: An exceptional graduate student is coming…
- Get to know your future advisor/supervisor from their reply
- What to send?
  - Cover letter (email itself)
  - CV (a short version with highlights) or resume
  - Your writing material: thesis or papers (optional, not too many)
  - PDF preferred; no large attachment; no zip files

Application for Job/Graduate School

- Essential elements
  - Cover letter
    - A formal notification
    - Tagging yourself
  - Curriculum Vitae or resume
    - Select records of professional life
  - Personal/research statement
    - Motivations
    - Specifications
    - Plans
  - Reference letter
    - Proof and reinforce tags

Dear Admission Committee,

I am XXX, a PhD student in XXX from XXX University. I am writing to apply …

My qualification includes ……

Please find the attached …
Looking forward to …

Your Name
Contact information

Application for Job/Graduate School

- Essential elements
  - Cover letter
    - A formal notification
    - Tagging yourself
  - Curriculum Vitae or resume
    - **Select** records of professional life
  - Personal/research statement
    - Motivations
    - Specifications
    - Plans
  - Reference letter
    - Proof and reinforce tags

San Zhang

Contact Info

Education
Year, degree, specialization, institution

Employment
Year, title, company/institution

Publications
Year, authors, journal

Honors and Awards
Year, title, ranking/amount

Personal Statement

- Do your homework: Who the professor is; specific topic or general direction; previous publications; recent projects
- Proof or demonstrate your eligibility or qualification
- Echo the technical key words in the posting
- Pay particular attention to preferred or desired
- Be crispy: simple and clear
  - Organize sentences into concentrated groups of meaning; avoid scattering
  - If you do not have too much to say, keep it short; avoid repetition
  - Choose the right level of details – know the readers

Reference Letter

- Similar to the application of scholarship
- From the persons who know you well and can write strong letters
- From the persons known by the committee or future advisors
- Diversity of your referees
- Communication with the letter writers: So they know what you are applying; What need to be emphasized
- Not recommended: one letter fits all
- Make a convenient list if you need many letters in a short time
- Letters with a weak recommendation (if you can see the letter)?

Exercise

- Design a simple CV for your application
- Choose the order of sections
- Choose the items/sections good for you
- Can be either Chinese or English