| Position Title and Number: | Geodesist, position \# 20861 |
| :--- | :--- |
| Search Committee Chair: | Michael Bevis |
| Search Committee Diversity Advocate: | Joachim Moortgat |
| Search Committee Members: | Barbara Keyfitz, C.K. Shum, Demián Gómez |

Submit this form by email:<br>Date: Must be sent prior to extending invitations to Columbus campus candidates for on-campus interviews<br>To: Divisional Dean Divisional Dean's Assistant<br>cc: Associate Dean for Diversity Equity Inclusion Wendy Smooth<br>Subject: Approval Request: Faculty Search Diversity Recruitment Report

Directions: Please provide a brief response to each question below.

## 1. APPLICATIONS AND COMMITTEE TRAINING

- Did the search committee chair and/or members attend the "Searching for Inclusive Excellence" training and/or include a trainer at one of their committee meetings? If not, explain why not.

Yes, all members of the search committee participated in Dean Wendy Smooth's "Searching for Inclusive Excellence" training.

- Indicate the objective of this search [e.g. hire assistant professor in the field of x ] and the time period of the "active" search [e.g. October 2021-February 2022]:

Hire a faculty member at any rank (but preferably at the Asst. or Assoc. Professor rank) in the field of geodesy with a preference for physical geodesy or adjustment theory and the ability to teach core classes in the graduate curriculum following the retirement of two key faculty in the Geodetic Science Division graduate program. The position was first posted online on December $21^{\text {st }} 2021$ and the active search continued until this month, March 2022.

- What populations are underrepresented in the department/school?

Women, BIPOC, and LGBTQIA+ faculty. At present the Division of Geodetic Science (DGS) has the highest fraction of underrepresented groups in the School of Earth Sciences (SES), i.e. 1 of 3 faculty members, but even so none of its faculty are female.

- What strategies did the search committee proactively employ to recruit faculty from underrepresented populations and diversify the applicant pool? Describe the impact of these strategies, as well as the challenges.

Besides the ad in academicjobsonline.org and discipline-specific list servs, we reached out to individual potential candidates that would add to diversity, and we posted ads in a number of outlets recommended in our "Searching for Inclusive Excellence" training. Specifically: : (1) the Association for Women in Science, (2) the Chronicle of Higher Education and (3) the diversity package at Academic Careers Online. See links below."
https://awis.associationcareernetwork.com/iobs/view/faculty-position-in-
geodesy/61382352/?keywords=the+ohio+state+\&pos flt=0\&location=columbus\&location completion=\&location type=\&lo cation text=columbus\&location autocomplete=true
https://iobs.chronicle.com/iob/446608/the-ohio-state-university-school-of-earth-sciences-faculty-position-ingeodesy/
https://academiccareers.com/iob/34245/faculty-position-in-geodesy-school-of-earth-sciences-the-ohio-state-university/
The main challenge in recruiting faculty from underrepresented minorities (URM) is that geodesy is a small field and not a very diverse field globally, including at the student level. OSU is the only university in the US with a formal geodesy graduate program. Globally, by far the largest center of geodesy training and research is Wuhan, China. Indeed, about half our applicants studied in one of those two programs. We recognize that it is therefore incumbent on our program to recruit and train diverse cohorts of future students, and that role model faculty could benefit such efforts.

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- Did diversity and inclusion, or broadening participation, or related issues arise in discussions during the search process? If so, describe the nature and outcome of such discussions. Did candidates submit diversity statements? How were the statements evaluated as part of the review process?

Diversity and inclusion featured prominently in all our discussions. Naturally, most weight was given to candidates from URM backgrounds, but we also gave considerable weight to the diversity statements that were provided by all candidates. Of the non-URM candidates, some were moved down in our rankings due to a perceived lack of commitment to diversity, while others received extra points for their thoughtful diversity statements.

- Describe the applicant pool (using the EEO Report from Academic Jobs Online) from which the new hire will be selected. How satisfied are you with that pool and with its diversity? Please explain.

Our total number of applicants was 21. Of those, 3 were women and 18 men. Two are African, 9 are Chinese, 1 from Korea, 1 from Nepal, 6 from Iran, 1 from Turkey, 1 from Croatia, 0 from the US. This group certainly represents diverse international backgrounds but is disappointing in only having three (14\%) female scholars. It is not clear to us if Iranians are considered 'white' or not. In the end, we decided to assume that they were.
$\checkmark$ Faculty Search Applicant Pool - Please attach the EEO Report for the position available in Academic Jobs Online (contact your college HR generalist if you need assistance with this). If a different application portal was used, provide a report similar to the attached sample.
This can be found at the end of this report.

## 2. SCREENING PROCESS

- Describe the screening process and criteria employed in the evaluation of applications received.

This position is intended to fill a significant gap left by the recent retirement of 2 full professors in the geodesy program, which now only has 3 remaining faculty. For this reason, the highest priority was given to candidates that can teach core/essential classes in the geodesy curriculum. For similar reasons, a proven track record on grantsmanship and high impact published research was considered highly desirable, though we were careful not to rely blindly on 'easy' metrics like total number of citations or h-index (e.g., by looking at quality of journals, lead-author vs middle-author papers, normalizing by years since PhD, and using other approaches). Finally, the ability of a candidate to add to the diversity of our geodesy faculty was seen as an important criterion. Unfortunately, the first two criteria lead to a preference for somewhat more senior scholars, while all 3 women applicants are more junior (two within 2 years from PhD) and have not had as much time to fully establish themselves in the field, whereas the strongest Black applicant is a geophysicist who could likely not teach any the aforementioned key classes, a difficulty which, if it remains unresolved, will likely lead to the collapse of OSU's geodetic science graduate program in 12-18 months.

In an attempt to balance the factors listed above, we ranked candidates in three separate categories: 1) proven track records and assessed potential in research, funding, and (especially) teaching in the areas were recent retirements have resulted in a highly problematic and existentially dangerous capacity gap, 2) a separate ranking of all 6 candidates from URM backgrounds, given that those candidates all happened to be more junior, and 3) each committee member's final ranking of candidates to interview, based on both the ability to address DGS's urgent needs, and the desire to promote greater diversity. We ended up with a mix of established 'low risk' candidates and some of our exciting early career applicants that would enhance the diversity of our faculty. This process, which quantified the impact of diversity goals on the final selection of candidates, is described in more detail in our report of 21 March to Dean Susan Olesik and Director Steven Lower.

OPTIONAL: Please complete the following table for applicants not chosen for a campus interview using the following format (see instructions on the last section on the next page).

| Applicant Name/\# | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| (Femàe) |  |  | $\underline{\chi}$ |  |  |  |  |  | More nterested n app cat ons of geodet c techn ques than $n$ the techn ques themse ves; too much over ap w th present facu ty | Coud not teach our phys ca geodesy c asses or our upper eve adjustment c asses |
| IFema |  |  | $\underline{\chi}$ |  |  |  |  |  | More nterested n app cat ons of geodet c techn ques than $n$ the techn ques themse ves | Coud not teach our phys ca geodesy casses or our upper eve adjustment casses |
| $\frac{(\text { Afrcan }}{\mathrm{mae})}$ | ${ }^{\mathrm{X}}$ Nota geodes st |  | $\underline{X}$ |  |  |  |  |  | Cou d not teach any geodesy courses, even our entry eve courses |  |
| $\frac{\text { (Afrcan }}{\text { mae) }}$ | Not a geodes st |  | $\underline{\chi}$ |  |  |  |  |  | Coud not teach any geodesy courses, even our entry eve courses |  |

## Kev for Tabe

1. Insuff $c$ ent re evant des red academ $c$ qua $f$ cat ons.
2. Insuff c ent re evant tranng for estab sh ng a f rst rate research or creat ve act vty program.

Insuff c ent teach ng exper ence and qua fcat ons.
Research proposa sor creat ve act vty potent a were not compe ng.
Future fund ng for research program was unc ear.
Research or creat ve act vty program acked c ear gu dance and drect on.
Unabe to contact to schedue an ntervew.
W thdrew from cons derat on or dec ned an nterv ew offer
Other (enter descr pt on)
10. Other (enter descr pt on)

## 3. PROPOSED INTERVIEW POOL

- Briefly describe the credentials of the candidates that you propose to bring as finalists to campus. How satisfied are you with that pool and with its diversity? Please explain.

1. 

Professor at the University (PhD 2007) is a well-established Dutch-Iranian geodesist with dual appointments as Full Professor at the University of Isfahan, Iran, and Asst. Professor at Delft University, the Netherlands. He has the strongest publication record ( 4663 citations, h-index 30), has taught extensively on topics relevant to this search, and has well thought out teaching and diversity statements. He is interested in establishing a geodesy undergraduate minor. His research also involves AI/ML. He is a world class adjustment theorist, and capable of teaching all the upper level geodesy classes that were taught by He is also a very accomplished GNSS geodesist, and has some expertise in inertial geodesy, a topic of increasing importance which has not been taught at OSU since
2. retired.
. (currently the world's greatest adjustment theorist, who enthusiastically endorses both, but信 citations, h-index 17). He is currently an Assistant Professor in Australia (and now an Australian citizen). He can teach all the upper level adjustment courses, and also GNSS geodesy. He is already well established, internationally, as a 'rising star' of geodesy.
3
(PhD 2020) is an early-career female scholar with a less established publication record (29 citations, hindex 3) but doing cutting-edge research and with the most glowing letters of recommendations from her advisors at Stanford and Caltech (where she is currently a postdoc). She could teach in her area of geodesy expertise, which is InSAR. She definitely qualifies as a geodetic imager, and most importantly she is an expert in the technique itself,

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and not just in its applications. She seems to be a brilliant young scientist. She can certainly teach a first course in adjustment theory, but it is much less clear if she could teach any of the advanced courses that once taught. This is an open issue that would be addressed in interview.
4. Research Scientist in DGS. He has written several textbooks, including a brand-new textbook on physical geodesy, and been involved in a large body of journal publications (1303 citations, h-index 21) and grants. He already teaches several core geodesy classes on a voluntary basis (when funding is available) and he is the only one of the 5 selected candidates who is an expert in physical geodesy and therefore capable of teaching all the classes taught by Professor of Geodesy and Remote Sensing at the University of Colorado at Boulder. His funded research makes the most extensive use of recent AI/ML advances. His letters speak to his infectious enthusiasm and impressive teaching skills, and he has already been actively involved in DEI efforts at his current institution. Like , he cannot teach most of the courses that were managed by or but he could teach in an InSAR course (though probably not as well as $\quad$ and he could teach a course in 4D geodetic imaging using satellite photogrammetry. He has experience with GPS/GNSS fieldwork, and some experience with GPS/GNSS data processing. The entire committee was impressed by his diversity statement.

About $82 \%$ of SES faculty are white (as most commonly defined). Our search led to a pool in which $\sim 27 \%$ of the candidates are white. This indicates that our outreach efforts were successful.

We are satisfied that this short list of candidates draws a well-considered and optimal balance between addressing DGS's urgent needs in terms of research and especially teaching, and the desirability of promoting increased diversity in DGS and SES.

- Were any of the candidates chosen for campus interviews veterans or a person disclosing a disability?

No.

- For each candidate chosen for a campus interview, briefly describe how the candidate would contribute to the diversity of the department/school. How would each candidate amplify the values of inclusion and excellence? How does the candidate's teaching, mentoring, research, and/or outreach and engagement amplify diversity and inclusion? How would the candidate contribute to ongoing or new diversity and inclusion initiatives in the unit?

Proposed Interview Pool Chart. This chart is mandatory but including the specific name is optional.

| Total number of candidates selected for campus interviews | Gender of candidates to be interviewed |  | Race/Ethnicity, Disability Status, and Veteran's Status of candidates interviewed, if known |
| :---: | :---: | :---: | :---: |
|  | Female | Male |  |
| 5 |  |  | American Indian or Alaska Native |
|  | 1 | 1 | Asian |
|  |  |  | Black or African American |
|  |  |  | Hispanic or Latino(a) |
|  |  | 4 | International Applicant |
|  |  |  | Pacific Islander |
|  |  |  | Two or More Races |
|  |  | 3* | White |
|  |  |  | Race Not Identified |
|  |  |  | All by Disability Status $=$ Yes |
|  |  |  | All by Veteran Status $=$ Yes |
|  |  |  | Unknown status |
| 5 | 1 | 4 | TOTAL |

*Note that there is some discussion as to whether or not Arabs and Iranians should be labeled as 'white'.

## EEO Reports



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## EEO Report

- School of Earth Sciences: [PROFESSOR \#20861, 2021/12/21-2022/02/21] Faculty position in Geodesy

| Applicant Race» | Total Appl |  | Asian |  | Black or African American |  | White |  | Declined |  | Other |  | Multiple Selected |  | Int'l Appl |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | \# | \% | \# | \% | \# | \% | \# | \% | \# | \% | \# | \% | \# | \% | \# | \% |
| Male | 19 | 82.61\% | 9(2) | 75\% | 2 | 100\% | 7(1) | 100\% |  |  | 3(1) | 100\% | 2 | 100\% | 11 | 100\% |
| Female | 3 | 13.04\% | 3 | 25\% |  |  |  |  |  |  |  |  |  |  |  |  |
| Declined | 1 | 4.35\% |  |  |  |  |  |  | 1 | 100\% |  |  |  |  |  |  |
| Total Appl | 23 | 100\% | 12(2) | 48\% | 2 | 8\% | 7(1) | 28\% | 1 | 4\% | 3(1) | 12\% | 2 | 8.70\% | 11 | 47.83\% |


| Applicant Ethnicity |  | Total Appl | Asian | Black or African American | White | Declined | Other | Multiple Selected | Int'I <br> Appl |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Not <br> Hispanic or Latino | Male | 18 | 9(2) | 2 | 6(1) |  | 3(1) | 2 | 10 |
|  | Female | 3 | 3 |  |  |  |  |  |  |
|  | Declined |  |  |  |  |  |  |  |  |
|  | Total Appl | 21 | 12(2) | 2 | 6(1) |  | 3(1) | 2 | 10 |
| Declined | Male |  |  |  |  |  |  |  |  |
|  | Female |  |  |  |  |  |  |  |  |
|  | Declined | 1 |  |  |  | 1 |  |  |  |
|  | Total Appl | 1 |  |  |  | 1 |  |  |  |
| Unknown | Male | 1 |  |  | 1 |  |  |  | 1 |
|  | Female |  |  |  |  |  |  |  |  |
|  | Declined |  |  |  |  |  |  |  |  |
|  | Total Appl | 1 |  |  | 1 |  |  |  | 1 |
| Total | Male | 19 | 9(2) | 2 | 7(1) |  | 3(1) | 2 | 11 |
|  | Female | 3 | 3 |  |  |  |  |  |  |
|  | Declined | 1 |  |  |  | 1 |  |  |  |
|  | Total | 23 | 12(2) | 2 | 7(1) | 1 | 3(1) | 2 | 11 |


*** For the race/gender data, the numbers in the parentheses, if any, represent multiple selections. For example, 800(25) means that 800 applicants selected that race, and among them 25 made multiple selections which include that race. See the FAQ.
*** "Int'l Appl" refers to those applicants with mailing addresses in other countries (and some may be your citizens), and their responses are already included in the overall summary data.
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