Robin and Tim Wentworth Director, Goergen Institute for Data Science
Position Description

The University of Rochester invites applications and nominations for the position of Robin and Tim Wentworth Director of the Goergen Institute for Data Science. Candidates should have an exceptional research record in data science or related fields; scientific leadership and vision; experience and capability to manage an academic unit, including developing new projects and programs, mentoring junior researchers, and administration of the Institute; and an ability to connect to a wide range of constituents in academia, industry, foundations, and government. Candidates could come from a wide range of professional backgrounds that involve data science.

The director will be expected to envision, build, and sustain multi-disciplinary research partnerships and initiatives within the University and in the wider entrepreneurial ecosystem. The ideal director will enhance Rochester's prominence as a leader in data science research and education across a range of rapidly evolving fields.

The Goergen Institute for Data Science

The University of Rochester named data science as a top priority in its current strategic plan, leading to the creation of the Goergen Institute for Data Science in the newly constructed Wegmans Hall (58,000 sq. ft). The University continues to hire new faculty in areas in which data science plays a critical role including bioinformatics, biomedical engineering, biology, brain and cognitive sciences, business, economics, environmental sciences, computer science, linguistics, mathematics, statistics, physics, and political science.

The current research emphases of the Goergen Institute have been in health analytics, artificial intelligence and cognition, imaging, and robotics. Emerging areas of focus include predictive healthcare, augmented reality/virtual reality, human & computer interaction, natural language processing, business analytics, high energy density science, and cancer genomics.

The Institute has fostered external engagement through governmental and corporate relationships. The Institute houses the Rochester Center of Excellence in Data Science, a NYSTAR program to leverage basic research, training & technology development in data science to drive regional economic development; the Rochester Data Science Consortium whose staff apply university research to commercial problems, nurturing long-lasting relationships with local industrial partners; and the Center for Integrated Research and Computing.

The Goergen Institute for Data Science has developed a number of programs at the undergraduate and graduate level: a BS in Data Science, an MS in Data Science, an NSF Research Training (NRT) Program, which provides training in data science for a cohort of 3 Computer

Science and 5 Brain & Cognitive Sciences PhD students; and an NSF-funded Summer Research Experience for Undergraduates (REU).

The Position

The director of the Goergen Institute for Data Science reports directly to dean of the Hajim School of Engineering and Applied Sciences and the dean of the School of Arts and Sciences. The new director will be expected to shape institutional priorities within a dynamic environment that values nimble adaptation, academic innovation, and commitment to excellence with high standards of performance.

The director has responsibilities in the following areas:

- **Strategic Leadership:** work collaboratively with faculty and administration to further shape and enhance data science research at Rochester;
- **Academic Quality:** create and maintain a superior, innovative curriculum, including mentored research and research apprenticeships;
- **Student Experience and Success:** develop and sustain an inclusive and supportive learning environment; forge and foster community and corporate ties; create opportunities for students to engage in a purposeful educational experience within the data sciences;
- **Leadership:** oversee the management of the Institute's resources, including budget, faculty, staff and space, to achieve the Institute's mission;
- **University Relations:** sustain ties and develop programmatic collaborations with other schools and units at the university; contribute to the development of University priorities and initiatives.
- **Advancement:** engender support, secure external resources and promote the Institute to University alumni, volunteers and friends.

Qualifications

Competitive candidates will have the following professional qualifications and personal characteristics:

- **Research Stature**: distinguished research accomplishments, commensurate with appointment at the rank of professor in an AAU institution;
- **Program Leadership**: proven ability in and a strong commitment to fostering research and education in data science;
- **Diversity and Inclusiveness:** demonstrated record of increasing diversity at every level of the university: faculty, staff, and students;
- **Leadership Experience:** experience with the navigation of complex organizational structures with multi-faceted strategies, and especially the ability to work effectively with diverse groups of people, the capacity to listen, and the ability to gain trust and inspire others to further the Institute's mission and programs;
- **Fundraising Skill:** experience in development and the willingness to serve as a key fundraiser, engaging others on behalf of the Goergen Institute for Data Science's mission;

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- **Administrative Skill**: fiscally responsible and able to lead decision-making in finance, space, and related resources.

The University
The University of Rochester ranks among the nation's top research universities and has been a member of the AAU since 1941. The University consists of six closely co-located academic units: Arts, Sciences & Engineering (composed of the School of Arts and Sciences and the Hajim School of Engineering and Applied Sciences); the School of Medicine and Dentistry; the School of Nursing; the Eastman School of Music; the Simon Business School; and the Warner School of Education and Human Development. The University of Rochester Medical Center has received over $1.1 billion in total research funding over the last five years. Total research expenditures at the university as a whole are approximately $350 million. The University's endowment exceeds $2.3 billion.

Including the medical center, the University has 1,320 full-time and part-time faculty and over 11,200 full-time and part-time students divided between undergraduate, graduate, and professional education. The faculty have won support for their research from many sources, including federal and state governments, corporations, foundations, nonprofit agencies, individuals, and the university itself. The physical proximity among the major academic units is closer than at most major research universities, and helps to foster close transdisciplinary collaborations across medicine, engineering, business, and the arts and sciences. The University is also a global institution, with individuals from outside the United States comprising nearly 30% of the student body and 19% of the faculty. The Office for Global Engagement is coordinating expansion of international partnerships in research and new opportunities for students to study and work abroad.

The next director will join the University of Rochester at a time of considerable achievement as well as opportunity. In 2016 the University completed its Meliora Challenge capital campaign, raising $1.373 billion against an original goal of $1.2 billion. New buildings and facilities have opened on campus including Wegmans Hall, home to the Goergen Institute for Data Science; the Brian F. Prince Athletic Complex; new student activity space; a language center; and the Paul J. Burgett Intercultural Center. The University has taken significant steps toward developing a regional healthcare system and won approval from the New York State Education Department for the University, through its Warner School of Education, to serve as an Educational Partnership Organization for East High School in the City of Rochester. Building on this progress, the University has now defined an ambitious Next Level initiative emphasizing programs in data science, humanities, imaging, neuroscience and neuromedicine, optics, photonics, and performing arts, and, more broadly, a revitalization of the greater Rochester community. The community in turn is poised to capitalize on these initiatives with new public commitments to invest in the university and the region, including $600 million for the Rochester Regional Photonics Cluster and an additional $500 million as part of the Upstate Revitalization Initiative.

The University's libraries are among the best in the United States and Canada, with membership in the Association of Research Libraries and with combined holdings of more than 3.5 million volumes and extensive collections of online databases, electronic journals, rare books, and musical scores. The River Campus Libraries include Rush Rhees (Digital Scholarship Lab, Rare Books and Special Collections, Robbins Medieval Library and Art/Music Library); the Physics, Optics and Astronomy Library; and the Carlson Science and Engineering Library. Library staff provide expert services to support and add value to the research, teaching, and learning mission of AS&E.

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The University is decentralized, using a responsibility-centered management system under which all revenues and expenditures are attributed to the programmatic divisions (e.g., schools, hospitals, art gallery). The University's comprehensive annual budget, including the medical center and healthcare enterprise, exceeds $3 billion.

The City
Rochester routinely ranks as one of the most livable cities in the United States and one of the best places in the country for families, with outstanding schools, housing, and cultural life. Rochester has flourished despite the decline of large corporations like Kodak because of a commitment made two decades ago to foster an economy of innovation as well as ongoing public investment in the region. In the past ten years, more than 50 start-up companies have spun out of the university creating new opportunity in the region.

The city is located in the Finger Lakes region and offers numerous city parks and other outdoor venues for recreation. Located on the historic Erie Canal and the Genesee River, and just five miles south of Lake Ontario, Rochester offers extensive sailing, canoeing, and hiking opportunities. During the spring and summer months, Rochester's neighborhoods come alive with festivals and arts fairs. The annual Rochester Jazz Festival is one of the largest in North America. Winter sports enthusiasts can try their hand at cross-country skiing, snowshoeing, downhill skiing at Bristol Mountain, and even curling.

Rochester is home to numerous coffee shops, restaurants, book stores, movie theaters, and museums. For music lovers, the city has an unusually large number of concert venues for a medium-sized city, from grand theaters to a thriving club scene. There are numerous theater companies, a world-class symphony orchestra, and major opera and ballet companies. For sports fans, there are professional baseball (Red Wings), hockey (Amerks), soccer (Rhinos), and lacrosse (Knighthawks, Rattlers) teams.

The Search
Inquiries, nominations, and applications are invited. Although the search will remain open until the position is filled, candidate materials should be received as soon as possible. Candidates should provide a curriculum vitae, a letter of application that addresses the responsibilities and requirements described herein, and the names and contact information of five references. References will not be contacted without prior knowledge and approval of the candidate.

Materials should be sent electronically via e-mail to the University's consultant, Dr. Jonathan Fortescue of Park Square Executive Search, at 92325@parksquare.com. Documents that must be mailed may be sent to Jonathan Fortescue, Ph.D., Managing Partner, or Kyle Meingast, Principal, Park Square Executive Search, LLC, 125 Summer Street, 18th Floor, Boston, MA 02110. Phone: 617-401-2991.

The University of Rochester is an equal opportunity/affirmative action employer committed to recruiting, supporting, and fostering a diverse community of outstanding faculty, staff, and students. All applicants who share this goal are encouraged to apply.

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The Organization
An external Advisory Committee was established at the onset of the formation of the Institute and is composed of both academic and corporate leaders. The purpose of the committee is to provide advice regarding the needs from the corporate perspective in educational and research programs as well as to enable greater engagement with the corporate sector. The membership currently includes:

- Nomi Bergman, Senior Executive Officer, Advance/Newhouse Communications
- David L. Ennist, Chief Science Officer, Origent Data Science
- Oren Etzioni, Executive Director, Allen Institute for Artificial Intelligence
- Bob Fiete, Chief Technologist and Fellow at Harris Corporation
- Dan Gallagher, President and CEO, Soleo Communications
- Luke Guerrero, Executive Vice President of Technology, Brand Networks
- Alon Halevy, Chief Executive Officer, Recruit Institute of Technology
- Eric Horvitz, Distinguished Scientist and Managing Director, Microsoft Research
- John Kelly, Senior Vice President Corporate Operations, Xerox (retired)
- Bob Maybee, Vice President of Customer Loyalty & Insights, Wegmans Food Market, Inc.
- Greg Munves, Chief Operating Officer, 1010data
- Mikki Nasch, CEO, Activity Exchange
- Alex Pentland, Director, Human Dynamics Laboratory, MIT
- Peter Pirroli, Senior Research Scientist, Florida Institute for Human and Machine Cognition
- Mark Pitts, Healthcare Analytics Executive, SAS
- Danny Sabbah, Chief Technology Officer, IBM Cloud Businesses, (retired)
- Richard Scheuermann, Director of Informatics, J. Craig Venter Institute (JCVI)
- Bart Selman, Professor, Computer Science, Cornell University

To ensure the Institute spans the entire University, an administrative committee provides oversight and direction. Membership of the committee includes:

- Rob Clark, Provost and SVP Research
- Gloria Culver, Dean of the School of Arts and Sciences
- Stephen Dewhurst, Vice Dean for Research at the School of Medicine and Dentistry
- Wendi Heinzelman, Dean of the Hajim School of Engineering & Applied Sciences
- Richard Waugh, Dean of the Faculty of Arts, Sciences & Engineering (interim)
- Senior leadership of the Institute Staff (Director, Deputy Director for Academic Programs, and Executive Director for Industry Relations)

The Robin and Tim Wentworth Director of the Goergen Institute for Data Science oversees staff aligned to the three aims of academic programs, external engagement and research. Please see the organization chart on the following page.

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Organizational Chart

Organizational chart for the Goergen Institute for Data Science:

- Robin and Tim Wentworth Director
  - Administrative Committee
  - External Advisory Committee
  - Administrator
    - Deputy Director for Academic Programs
      - Coordinator, Education Programs
    - Executive Director Center of Excellence
      - Director for Business Engagement and Development
      - Economic Development Coordinator
    - Director for Research Outreach
    - Executive Director Data Science Consortium
      - Staff Data Scientist
      - Staff Data Scientist
      - Staff Data Scientist
      - Senior Software Architect
      - Administrator
      - Business Development