Position Specification

Vice Chancellor for Research and Economic Development

The University of North Carolina at Charlotte

September 2018
POSITION SPECIFICATION

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<td>Joan F. Lorden, Ph.D.</td>
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THE OPPORTUNITY

The University of North Carolina at Charlotte (UNC Charlotte) invites nominations and applications for the position of Vice Chancellor for Research and Economic Development.

The University of North Carolina at Charlotte

UNC Charlotte is North Carolina’s urban research university. It leverages its location in the state’s largest city to offer internationally competitive programs of research and creative activity, exemplary undergraduate, graduate, and professional programs, and a focused set of community engagement initiatives. UNC Charlotte maintains a particular commitment to addressing the cultural, economic, educational, environmental, health, and social needs of the greater Charlotte region.

Responding to the need to serve returning veterans immediately after WWII, the University of North Carolina at Charlotte is one of a generation of schools founded in metropolitan areas just after the war to meet the rising post-war demands for higher education. On September 23, 1946, the State of North Carolina opened the Charlotte Center of the University of North Carolina with an enrollment of 278 students. In 1961, the school moved its main campus from Uptown Charlotte to its current location on a 1,000-acre campus ten miles from the city center. The main campus is now connected to UNC Charlotte Center City building through light rail.

From inception, in keeping with the State of North Carolina’s commitment to provide affordable access to quality education, the University has worked to make learning accessible to all. Though now a large research-intensive urban university and the third largest of the 17 institutions within the state system, the University has maintained its refreshing entrepreneurial culture and willingness to try new things and do things differently.

UNC Charlotte is the fastest growing institution in the UNC System, comprising seven academic colleges and offering 24 doctoral programs, 65 master’s degree programs, and 75 bachelor’s degrees. There are more than 1,400 full time faculty and fall 2018 enrollment exceeds 29,700 students. UNC Charlotte has more than 136,000 living alumni and adds roughly 4,000 to 4,500 new alumni each year.

The University’s 2016-2021 Institutional Plan affirms its responsibility to produce degree recipients who will contribute to the state of North Carolina as well-prepared, highly-skilled and productive citizens and lifelong learners able to function in a rapidly evolving global society. The plan
recognizes the centrality of the arts, humanities, and sciences to achieving these goals, the value of an interdisciplinary approach, and the importance of other experiences that can be embedded in a coherent collegiate experience, including international travel and study, internships and service-learning opportunities, and community service. Additional information can be found online at www.uncc.edu.

Research Enterprise at UNC Charlotte

UNC Charlotte is North Carolina’s urban research university. The campus of nearly 1,000 acres is located in Charlotte, the state’s largest city, in the Piedmont of North Carolina, just two hours from the Blue Ridge Mountains, three hours from the Atlantic Ocean, and only a short light rail trip from uptown Charlotte. Charlotte is the third fastest growing city and the second largest financial center in the country with a regional population of 2.47 million. Nearly 75,000 UNC Charlotte alumni are currently living and working in the greater Charlotte area.

With nearly 30,000 enrolled students, over 50% of whom are enrolled in STEM disciplines, UNC Charlotte is the fastest-growing institution in the North Carolina state university system. UNC Charlotte enrolls over 5,300 graduate students in its 65 Masters and 24 Doctoral programs across seven academic colleges. It offers internationally competitive programs of research, creative activity, and exemplary undergraduate, graduate, and professional studies coupled with a commitment to community engagement that enriches the region’s quality of life. UNC Charlotte has been recognized by the Association of Public and Land-grant Universities (APLU) as an Innovation & Economic Prosperity University and has received the Carnegie Foundation for the Advancement of Teaching’s Community Engagement classification.

Construction projects underway at UNC Charlotte include a $60M interdisciplinary science and STEM teaching facility, $62M fitness and wellness center, and 226-bed campus hotel and conference center immediately adjacent to PORTAL, the University’s industry-university partnership and innovation building.

Research is a cornerstone of UNC Charlotte’s mission with research awards exceeding $50 million during the past two years. The University supports several National Science Foundation Industry-University Cooperative Research Centers (NSF I/UCRC) and numerous interdisciplinary centers, institutes, and core funded research programs focusing on bioinformatics, biomedical science and engineering, cyber defense and cyber security, data science and analytics, data visualization, energy production and infrastructure, freeform optics, geographical information science, metamaterials, motorsports research, optoelectronics and optical communications, precision metrology, robotics and sensing, and transportation studies.

Industry-government-university partnerships are a central component of the University’s research enterprise and are integral to research breakthroughs that enhance the social, cultural, and economic growth of the region. The University’s Partnership, Outreach, and Research to Accelerate Learning (PORTAL) building, a 96,000 square foot lease-space facility dedicated to research partnership, innovation, and economic development, is home to 23 domestic and international companies and the University’s technology transfer, small business and technology, and entrepreneurship support units. Additionally, the Charlotte Research Institute is a unit within Research and Economic Development dedicated to working closely with economic development leaders to encourage sustainable growth and advancement in the Charlotte region and generating industry and government research collaborations for the university. Examples of UNC Charlotte research partnerships with Fortune 500 companies include work with Boeing on new approaches
to defense aircraft manufacture, advancements in smart grid technologies with Duke Energy, large-scale precision measurement and manufacturing advancements in collaboration with Siemens, and informatics and data analytic research with Bank of America.

Also significant is UNC Charlotte’s commitment to supporting and strengthening the entrepreneurial ecosystem in the Charlotte region. Ventureprise, the University’s center for entrepreneurship, was the first NSF I-Corps technology commercialization and customer discovery program site in the Carolinas. To date, the I-Corps program has supported 73 faculty and student teams. Ventureprise also oversees the University’s student incubator, the 49er Foundry, which currently houses ten student ventures. The Office of Technology Transfer, also within Research and Economic Development, is one of the most productive programs of its kind, ranking 5th nationally per $10 million in research for new startups.

For more information, please visit https://research.uncc.edu/about-us/success-stories.

**UNC Charlotte Institutional Research Centers**

UNC Charlotte Institutional Centers are established within the University to strengthen and enrich multidisciplinary programs of research, public service, or instruction conducted by the faculty and staff. Centers and institutes have a strong positive impact on the economic development of the state by providing job opportunities, supplying technical assistance and training, fostering community development, and enhancing the transfer of new technologies. By engaging in partnerships with private or corporate sponsors, educational institutions, and federal or state agencies, centers serve as an important means to address the diverse mission of the University.

**Urban Institute:** The institute is a nonpartisan, applied research and community outreach center at UNC Charlotte. Founded in 1969, it provides services including technical assistance and training in operations and data management; public opinion surveys; and research and analysis around economic, environmental, and social issues affecting the Charlotte region. It supports the University’s Civic Action Plan and the Institute for Social Capital, an integrated data system for the county.

**Bioinformatics Research Center (BRC):** The Bioinformatics Research Center (BRC) offers space for both wet and dry laboratories, and includes core facilities for molecular biology, proteomics, and computing. Additional genomics and proteomics core facilities are available through a UNC Charlotte partnership with the Carolinas Medical Center. The BRC has taken a leadership role in developing Bioinformatics programs at the North Carolina Research Campus (NCRC), a 350-acre research park in nearby Kannapolis, NC. The NCRC is home to the research programs of several UNC System institutions focusing on plant genomics and metabolomics as well as of a number of private biotechnology companies.

**Center for Applied Geographic Information Science:** The Center for Applied GIS is an interdisciplinary center that addresses pressing global resource and sustainability concerns through analysis of human-environment interactions at multiple spatial, temporal, and decision-making scales. We resolve complex questions by integrating theory from the geospatial, natural, and social sciences coupled with advanced modeling techniques and performance computing.

**Center for Biomedical Engineering and Science (CBES):** The complexity of biomedical issues requires collaborative and multi-disciplinary efforts to make optimal advancements. The CBES mission addresses this by fostering interdisciplinary collaborations for advancing biomedical
engineering research and development using a systems approach. As such CBES provides the
infrastructure for faculty and students at UNC Charlotte and biomedical researchers in the Charlotte
metropolitan area, to collaborate on critical biomedical issues. In this way our CBES researchers
are able to synergize their expertise to strongly impact biomedical engineering research,
development, and practices.

**Center for Optoelectronics and Optical Communications:** The Opto Center provides cost-effective
access to specialized expertise and apparatus in optics, imaging, and nano-fabrication, including:
plasma etching, dielectric deposition and metallization; optical & e-beam lithography; optical, e-
beam, & atomic-force microscopy; x-ray diffraction; 3-D nano-scale printing; freeform micro-milling
and magnetorheological polishing; interferometric surface characterization; spectroscopic
measurements of refractive index, attenuation, reflection, transmission, emissivity, and angular
scattering; optical design services; fiber optics; and laser technical support. Our highly qualified
support staff can perform measurements and fabrications, design and develop prototypes, or
provide training to users to operate our facilities independently. We welcome teaming opportunities
with both academic and industry partners.

**Center for Precision Metrology (CPM):** The Center for Precision Metrology is an interdisciplinary
association of UNC Charlotte faculty and student researchers, allied with industrial partners in the
research, development and integration of precision metrology as applied to manufacturing. Working
with dimensional tolerances on the order of 10 parts per million or better, precision metrology
encompasses the methods of production and inspection in manufacturing, measurement,
algorithms, tolerance representation, and the integration of metrology into factory quality systems.
The CPM works closely with the UNC Charlotte Lee College of Engineering’s internationally
recognized Advanced Manufacturing program as well.

**Center for Professional and Applied Ethics:** As the Ethics Center for North Carolina’s urban
research university, The Center for Professional and Applied Ethics works to promote a culture of
robust research and discussion in ethics and the application of ethical research and debate in the
University, Charlotte community, and beyond. The Center collaborates with a range of
constituencies, providing ethics expertise and research as a foundation for ethical deliberation.
Together we shape an interdisciplinary intellectual and moral space in which people can critically
assess, thoughtfully discuss, and strategically address ethical challenges in areas such as
business, healthcare, information technology and popular culture.

**Childress Klein Center for Real Estate:** The Childress Klein Center for Real Estate at UNC
Charlotte was established to further the knowledge of real estate, public policy and urban
economics in the professional community through its teaching, research and community outreach
activities. It has been ranked among the 20 most active research institutions in real estate for the
past decade. The Center administers the M.S. in Real Estate program, the MBA concentration and
certificate programs in real estate finance and development, and manages programming and
outreach to the Real Estate Alumni Association and Real Estate Advisory Board.

**Charlotte Visualization Center:** The Charlotte Visualization Center is a highly interdisciplinary
center that applies interactive visualization and visual analytics to a variety of large scale and
complex problems in science, engineering, medicine, business, design, and the arts. It was
established in 2005 and includes over 30 faculty members and over a hundred graduate and
undergraduate students. The VisCenter faculty is truly interdisciplinary with members from CS,
SIS, Engineering, English, Geography and Earth Sciences, Architecture, Ethics, and other
departments. The VisCenter also has one of the deepest programs anywhere in fundamental
visualization, visual analytics, and human-computer interaction research with nine faculty members doing work in these areas. The main VisCenter Lab provides an exciting, state-of-the-art environment for visualization and HCI research and application development with an abundance of advanced displays, interaction devices, and a large, multiscreen stereoscopic projection system. Faculty and students enjoy a highly interactive and collaborative environment through the VisCenter seminar series, symposia, workshops, social events, and other activities.

**Infrastructure, Design, Environment and Sustainability Center (IDEAS):** The Center's mission is to contribute to framing the challenges, providing leadership, and creating the solutions that will accelerate the technical and social shifts needed to make our built environment more sustainable. The IDEAS Center was created to focus university expertise on the challenge of creating and advancing a more sustainable built environment. Together we create, distill, translate, and disseminate technology and guidance documents that rapidly transform and advance sustainable infrastructure, materials, building and site design innovations and practices.

**NC Motorsports and Automotive Research Center (NCMARC):** UNC Charlotte Motorsports is located in the heart of NASCAR country and is the first stop for employers hiring interns and entry level engineers. We’re within 50 miles of 90% of the NASCAR Sprint Cup teams and five miles from Charlotte Motor Speedway, just past the checkered flag. Our program is rigorous and well respected in the automotive and racing industries. We offer one of the most innovative “hands-on” programs available in the U.S., allowing our students to be some of the most qualified applicants in motorsports. We insure that our students have the opportunity to learn the theory that will help them on the race track or in automotive design, testing and manufacturing facilities.

### About the Office of the Vice Chancellor for Research

The Office of Research and Economic Development includes the following offices and organizations. An organization chart can be found here: [https://research.uncc.edu/about-us/org-chart](https://research.uncc.edu/about-us/org-chart).

**Office of Grants and Contracts Administration (GCA):** The Office of Grants and Contracts Administration provides transactional support to college-based post-award staff and is responsible for overall sponsored program financial reporting and compliance. Award Management staff assist with tasks including award set-up and Banner budget entry, cost share, release time, and award close-out. Cost Analysis deals with recharge units, effort reporting and fringe benefit and F&A proposals. GCA also handles contract negotiation and issues sub-awards to other participating institutions.

**Office of Proposal Development (OPD):** The Office of Proposal Development (OPD) provides consultation services to faculty who are developing grant proposals.

**Office of Research Compliance (ORC):** The mission of the Office of Research Compliance is to ensure compliance with federal, state, and local laws and regulations as well as University policies by partnering with the University of North Carolina at Charlotte research community in support of ethical research practices. The ORC promotes ethical research practices by providing education, training, and resources to faculty, staff, researchers, and students. The ORC oversees several research and research-related areas including human subjects research (IRB), the care and use of laboratory animals (IACUC), the use of biological agents (IBC), export controls, and conflicts of interest.
Office of Research Services and Outreach (RSO): The Office of Research Services and Outreach is the central administrative office for managing proposal submissions and outreach.

Office of Technology Transfer (OTT): The Office of Technology Transfer identifies, protects, and commercializes university research and intellectual property. OTT works closely with faculty, students, and staff to help bring new technology and innovation to market and assists with the invention and patent process, confidentiality and non-disclosure agreements, and material transfer agreements.

The Charlotte Research Institute (CRI): The Charlotte Research Institute is the portal for business-university partnerships at UNC Charlotte. Regionally, CRI works with the community and the campus to accelerate technology commercialization and champions the growth of entrepreneurial ventures. Globally, CRI develops intellectual capital through collaborations with industry, government, and academia.

Small Business Development Training Center (SBDTC): The Small Business Technology and Development Center is a leading resource for growing and developing businesses. Located in PORTAL the SBTDC provides services in areas such as planning, financial management, human resources, marketing, and operations; and training and education for business startups.

Ventureprise: Ventureprise serves as the University’s entrepreneurial resource and is fully integrated with the business engagement mission of the Charlotte Research Institute. It is a resource for faculty, researchers, and students seeking to commercialize innovations through new venture formation. Ventureprise is the portal into the university for early-stage entrepreneurs seeking to leverage university resources.

Charlotte, North Carolina

Located in Charlotte, the largest city in North Carolina, the University is part of a vibrant and rapidly grown metropolitan region. Fueled by rapid job growth and affordable cost of living, between 2004 and 2014 Charlotte was ranked as the country’s fastest growing metro area and it tops the 50 largest U.S. cities as a millennial hub. With an estimated population of 860,000 and an average of 60 people moving to Charlotte a day, Charlotte is the 17th most populous city in the United States and the third fastest growing major U.S. city.

The University’s Center City campus in the heart of Charlotte is the only University of North Carolina building conceived and designed specifically to serve the people, organizations, and businesses of the urban center. Conveniently located next to the Center City campus, a new light rail system provides a physical connection between Center City and University City campuses. Center City provides the University with an enduring presence in the city’s business and cultural district, bringing the University’s considerable intellectual resources to the heart of the Charlotte community. With 143,000 square feet, 25 classrooms and design studios, meeting and performance spaces, an art gallery, and a four-acre park, it speaks to a new vision in higher education that includes urban education, research, engagement, and sustainability.

KEY RESPONSIBILITIES OF THE VICE CHANCELLOR

The Vice Chancellor for Research and Economic Development will report to the Provost and Vice Chancellor for Academic Affairs and will interact closely with the other senior officers, deans, and directors of centers, institutes, and programs. The Vice Chancellor will provide leadership for
advancing the research goals of UNC Charlotte and expanding the base of research funding from federal and state agencies, foundations, and the private sector.

The Vice Chancellor will:

- Provide direct oversight for the Office of Research and Economic Development, as well as increase the visibly and transparency of the Vice Chancellor's position across campus and in the region;
- Foster and facilitate the implementation of university and unit strategic plans as they relate to enhancing research competitiveness;
- Establish productive research liaisons with research-oriented faculty, staff, and students at UNC Charlotte as well as outside the university;
- Energize and grow the research enterprise by providing focus and support to secure grant awards from governmental and private sources;
- Foster active research engagement of faculty from diverse backgrounds;
- Assist in the development and implementation of policies and procedures that support the University’s research goals, including guidelines for creation, oversight, and discontinuation of university research centers;
- Develop research compliance programs and training in the responsible conduct of research;
- Promote institutional program development (program project grants, interdisciplinary grants);
- Develop guidelines for faculty engagement with industry including the issues of faculty time/commitment and permissible use of UNC Charlotte resources (space, equipment); and
- Take up additional tasks and responsibilities, as appropriate and necessary, in consultation with leadership.

PROFESSIONAL EXPERIENCE AND QUALIFICATIONS

UNC Charlotte seeks a bold and inspirational leader with intellectual breadth, strong interpersonal skills, demonstrated expertise in research-driven programs and policies, experience developing and leveraging partnerships, and success leading diverse, complex teams and/or organizations.

The successful candidate must have significant leadership experience in developing and executing a strategic vision and must be a persuasive and sophisticated communicator who can advance the University’s reputation as a premiere research institution. Candidates must understand the complexities of research agendas in higher education, be sensitive to the perspectives and values of faculty and students across all disciplines, have a commitment to shared governance, and possess the ability to collaborate with constituencies across the University and externally. The successful candidate should be able to bring together researchers from diverse backgrounds to enhance the university’s research collaborations locally, nationally, and internationally.

Candidates should also have an outstanding academic record, an abiding commitment to diversity, excellence and integrity, and possess a proven ability to inspire, motivate, and facilitate the success of others. Direct work with federal and other funding agencies is required. It is preferred that the candidate has demonstrated success in obtaining extramural funding to support research. National exposure to, experience in, and/or successful record of commercializing research and intellectual property into the private sector are also desirable.

EDUCATION

The Vice Chancellor for Research and Economic Development should possess an earned Ph.D.,
or equivalent terminal degree(s), and possess a record of recognized achievement in research, teaching, and service that would warrant appointment as a Full Professor.

**COMPENSATION**

The University of North Carolina at Charlotte offers an attractive compensation and benefits package, commensurate with the successful candidate’s background and experience.

**NOMINATIONS AND APPLICATIONS**

The Search Committee will begin reviewing candidates immediately and will continue until the position is filled. Priority consideration will be given to materials received by **Friday, November 30, 2018**. Applications should include 1) a detailed resume and 2) a letter of interest that addresses the responsibilities and requirements described above, as well as the applicant's motivation to apply. To ensure full consideration, inquiries, nominations, and applications (PDF preferred) should be submitted electronically, in confidence, to:

UNCC-VCRED@kornferry.com

**KORN FERRY CONTACTS**

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<th>Paul Chou</th>
<th>Josh Ward, Ph.D.</th>
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<td>Co-Managing Director</td>
<td>Senior Associate</td>
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As an EOE/AA employer and an ADVANCE Institution that strives to create an academic climate in which the dignity of all individuals is respected and maintained, the University of North Carolina Charlotte encourages applications from all underrepresented groups. The candidate chosen for this position will be required to provide an official transcript of their highest earned degree and submit to a criminal background check.