Tenure-track Faculty, All Areas of Computing
University of North Carolina at Charlotte

Job Title	Tenure-track Faculty, All Areas of Computing
Department	College of Computing and Informatics
Institution	University of North Carolina at Charlotte
	Charlotte, North Carolina
Date Posted	Nov. 18, 2024
Application Deadline	Open until filled
Position Start Date	Available immediately
Job Categories	Assistant Professor
	Associate Professor
	Professor
Academic Field(s)	Computer/Information Sciences
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Job Description	

Tenure-track Faculty, All Areas of Computing

The College of Computing and Informatics (CCI) at the University of North Carolina (UNC) at Charlotte invites applications for full-time tenure-track or tenured positions, partofinvestmentbytheStateofNorthCarolinatosupport expansionofundergraduate and graduate programs.

The College seeks the best candidates in*all areas*of Computing. Of particular interest arecandidateswith foundational,use-inspired,and/ortransdisciplinaryresearchinterestsin:

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- *NewModelsofComputing,*experimentalquantumcomputingandapplications,

- *Cloud&EdgeComputing,*IT&*Cyber-physical*infrastructure,datacenters, secure smart environments

- *GenerativeAI,computervision,NLP,machinelearning,trustandapplications,*

- *Softwareengineering,*auto-coding,dependability,autonomy,application specific architectures,

- *Humancenteredcomputing(HCC),*UX,human-AIcollaboration&

- co-creation,educationalusesofcomputers,CSEducationResearch,societalimpacts,

- *Security,*privacy,resiliency,trustworthinessandidentitymanagement

Applicants must hold a Ph.D. degree in a computer science, computer engineering or another closely related field, and preferably have a background aligning with one or more of the listed research foci. In addition, they must demonstrate significant accomplishments or outstanding potential in scholarship, teaching, and research, corresponding to the rank of appointment.Candidates for tenured positions must demonstrate a track record of industry/government/academic collaborations.Successful candidates are expected to: 1) develop and sustain nationally and internationally recognized, externally funded research programs as evidenced by high-quality publications,successfulstudentmentoring,innovationandentrepreneurshipactivities;2) demonstrate teaching innovation leading to the success of all students, and 3) participate in selected University initiatives.

Asaninstitutionofover31,000studentslocatedinthestate'slargestmetropolitanarea, UNC Charlotte is North Carolina's urban research university. The College is home to over5,089students in B.S., M.S., and Ph.D. programs, and it is one of the 10 largest producers of Computer Science degrees nationally. Current research and teaching strengthsof90+facultyincludeAIandmachinelearning;securityandprivacy,robotics and autonomy; visualization; cyber-physical systems; high-performance computing; human-centered computing, dependable computing, biometrics and identity management, software engineering, and CS education.

TheCollegehasavibrantandinnovativeresearchprogramwithanannualexpenditureof more than $10M. It is the driving force behind emerging Tech Hubs in Charlotte, which create entrepreneurial opportunities for faculty and students. CCI academic programs are ranked within top 10% - 15% nationally. Nine faculty members are NSF CAREER awardees, one is a AAAI Feigenbaum Awardee. The CCI faculty research and programs rank high in almost every metric (Visualization top 30, parallel and high-performance computing top 40, Robotics top 45, etc.) By design, the College's research is driven by a balance between an unbounded curiosity for fundamental questions and an urgent sense of mission to affect the important issues we face as a society. Cross disciplinary research and innovation are highly encouraged.

Forfullconsideration,pleasesubmitanonlineapplication/pro?leat:https://jobs.charlotte.edu/postings/59917

Weareconsideringhiringupto9facultypositionsindifferentranks. Thepostwillremainopenuntilfill.Reviewstartsas earlyasDec16.

Belowpleasefindmoreinformationaboutthecityof Charlotte,UNC Charlotte and CCI.

THE UNIVERSITY OF NORTH CAROLINA AT CHARLOTTE
UNCCharlotteisNorthCarolina'surbanresearchuniversitynestledinoneof America's fastest growing and most diverse cities. It leverages its location in the state's largest city toofferinternationallycompetitiveprogramsof researchandcreativeactivity,exemplary undergraduate, graduate, and professional programs, and impactful community engagement initiatives. UNC Charlotte is committed to working collaboratively with community partners to address the cultural, economic, educational, environmental, health, and social needs of the greater Charlotte region in line with the community's focus on racial equity and economic mobility.

Enrollmentexceeds31,000students–makingitthethirdlargestuniversityintheUNC System. UNC Charlotte is also the fastest growing institution in the UNC System, comprising nine academic colleges offering 171 undergraduate majors in 77 programs leading to Bachelor's degrees, 65 Master's degrees, and 24 Doctoral degrees. UNC Charlotteisproudtohave3,700passionateandcommittedfacultyandstaffmembersand more than 120,000 living alumni.

Responding to the need to serve returning veterans immediately after WWII, UNC 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 Carolinawithanenrollmentof278students.In1961,theschoolmoveditsmaincampus fromUptown Charlottetoitscurrentlocationona1,000-acrecampustenmilesfromthe city center. The main campus is connected to the city center of Charlotte and the Dubois Center at UNC Charlotte Center City by Charlotte Area Transit System light rail.

From its 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 entrepreneurial culture and its commitment to innovation. As the system's "Urban Research University," UNC Charlotte continues to be essential to the region's economic and civic vitality. The Office of Urban Research and Community Engagement serves as the hub of the University's engaged scholarship ecosystem, mobilizing, assessing, and advancingeffortsthatconnecttheUniversity'sinterdisciplinary,urbanresearch resources to community assets to co-create a thriving, inclusive region.

Largely because of this commitment, UNC Charlotte is the No. 1 institution in North Carolina in awarding bachelor's degrees to Latinx students, enrollment among Black/AfricanAmericanfreshmanhasgrownby30%, enrollmenthasincreased43%for first year Latinx students, and nearly 33% of the incoming class are first-generation college students. As of Fall of 2024, the University has 15.6% of the undergraduate student population identifying as Hispanic, becoming an Emerging Hispanic-Serving Institution, as recognized by Excelencia in Higher Education.

TheUniversityhasastrongfocusgoingforwardonstudentsuccessandaccess,and research results that strive to advance the institution's quality and growth through diversity, equity, and inclusivity. This pursuit has been reinforced through key administrative appointments and adoption of forward-looking strategic documents.

Since2020UNCCharlottehasclimbed76spotsintheU.S.NewsandWorldReport's 2025 Best Colleges rankings, the fastest rising among any national university in the Carolinas. UNC Charlotte is projected to become an 'R1' university in early 2025; a Carnegie Foundation designation for the highest level of research activities among doctoral institutions.

CHARLOTTE, NORTH CAROLINA
Fueled by rapid job growth and an affordable cost of living, in 2022/23 Charlotte was rankedasthecountry'sfifth fastestgrowingbigcityandisatopmillennialhub.Withan estimated population of over 900,000 andan average of 117 people movingto Charlotte per day, Charlotte is the 15thmost populous city in the U.S., 22nd largest metro area, and the second largest banking hub in the U.S.

The Charlotte region is home to headquarters for ten Fortune 500 companies and 17 Fortune 1000 companies such as Bank of America, Lowe's, Honeywell International, DukeEnergy,Nucor,SonicAutomotiveandSealedAir, amongmanyothers.Thecityis also home to the NFL's Carolina Panthers, NBA's Charlotte Hornets, NASCAR Hall of Fame,andthe6thlargestairportinthecountry.Theregionoffersawidearrayofcultural activities such as the Charlotte Ballet, Mint Museum, Blumenthal Performing Arts, and many outstanding and award-winning restaurants and eateries.

In the heart of the city of Charlotte is the Dubois Center at UNC Charlotte Center City, the only University of North Carolina building conceived and designed specifically to servethepeople,organizations,andbusinessesofthe urbancenter.Convenientlylocated next to the Center City campus, a new light rail system provides a physical connection between the Center City and University City campuses. Center City provides the Universitywithan enduringpresenceinthecity'sbusinessandculturaldistrict,bringing the University's considerable intellectual resources to the heart of the Charlotte community. With 143,000 square feet, 25 classrooms and design studios,

meetingandperformancespaces,anartgallery,andafour-acrepark,itspeakstoanew vision in higher education that includes urban education, research, engagement, andsustainability.

Over the past five years, the region has focused its collective community, civic and corporate resources on reducing long-standing racial disparities around economic and social outcomes, and ensuring equitable economic mobility among all residents, regardlessofrace,ethnicity,orzipcode.Thecommunity'sLeadingonOpportunityTask Force, driven by the Foundation For The Carolinas in collaboration with dozens of organizations and institutions, including UNC Charlotte, has led this community-wideeffort.

THE COLLEGE OF COMPUTING AND INFORMATICS
The College of Computing and Informatics (*CCI*) at UNC Charlotte is one of the most comprehensive and innovative computing colleges in the country. With over 140 faculty and staff and 5,100 students, CCI graduates more than 1,300 Bachelors, Masters, and Ph.D. holders a year. The College is currently organized in four academic units: Department of Computer Science (CS), Department of Software and Information Systems (SIS), Department of Bioinformatics and Genomics (BiG) and the School of Data Science (SDS). CCI has distinct research strengths in AI & Machine Learning, Cybersecurity & Privacy, Computational Bioinformatics & Genomics, Human-Centered Design, High-Performance Computing and CS education. Located in*Charlotte* , the largest and fastest growing city in the Carolinas, CCI engages with the community and neighboringindustries aroundcommonsocial,research,anddevelopmentinitiatives.The College is an active innovation partner with every major industry in the region.

The College's curricula, pedagogy, and administrative structures are designed to be modern, agile, adaptable, and socially responsible. CCI enrolls and graduates one of the most diverse student populations in the country. CCI graduates the largest number of women, the largest number of African American students, and the largest number of Hispanics in the Carolinas. It was featured in a Communications of the ACM article and presentedasamodelof inclusiveexcellenceforothercomputingprograms,andreceived the CMD-IT University Award. At the Masters level, CCI has been broadening its offerings to meet the growing needs of lifelong learning for professional development and personal growth.

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TheCollegehasavibrantandinnovativeresearchprogramwithanannualexpenditureof more than $10M/year. In Dec. 2022, CCI ranked 39th in the NSF Higher Education Research & Development (*HERD*).Nine faculty members are NSF CAREER awardees, oneisaAAAIFeigenbaumAwardee,andsixwererankedamongthetop2%ofscientists in the world based on the study conducted and**published**in 2022. The CCI faculty research and programs rank high in almost every metric (Visualization top 30, parallel and high-performance computing (PHPC) top 40, and Robotics top 45). Expertise in the college is clustered around the scientific foundations of computing and algorithms; the engineering of complex, high performance, reliable, and secure computing systems; the natureand qualityofcollaborationsbetweenhumansandcomputingsystems;andtheuse of computational methods to understand, predict, and affect biological and human systems. By design, the College's research is driven by a balance between an unbounded curiosityforfundamentalquestionsandanurgentsenseofmissiontoaffecttheimportant issues we face as a society. Cross-pollination between the researchers and the disciplines is highly encouraged and supported. This is what led, for example, to the creation of the School of Data Science, a school grounded in CCI and composed of faculty from four otheruniversitycollegesinterestedintheapplicationanduse

Contact Information

Please reference Academickeys in your cover letter when applying for or inquiring about this job announcement.

Contact

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