

## Medical Social Sciences

### **Northwestern University Feinberg School of Medicine**

Chicago, Illinois

#### **Research Faculty Position: Developmental Measurement Analyst – Environmental Children’s Health Outcomes (ECHO) Study**

##### **Overview**

The [Department of Medical Social Sciences](#) (MSS), Feinberg School of Medicine, Northwestern University invites applications for research faculty candidates with strong skills in psychometric analysis. The Department provides a unique scientific home for applied researchers who integrate biomedical and social science approaches to improvement of health and health care delivery across the lifespan ([www.mss.northwestern.edu](http://www.mss.northwestern.edu)). MSS provides rich resources for conducting research including a broad scientific portfolio with multiple, large scale datasets across the lifespan, biostatistical and health informatics cores, expertise in assessment methods and collaborative relationships across Northwestern’s biomedical and life sciences campuses. In particular, MSS and its [Center on Patient-Centered Outcomes](#) within the Institute for Public Health & Medicine has an extensive array of funded research focused on patient-centered outcomes research including outcomes measurement, psychometrics, quality of life, symptom management, and comparative effectiveness research.

##### **Project Role**

This research faculty position is based in the MSS NIH-funded Environmental Children’s Health Outcome (ECHO) Person-Reported Outcomes Measurement Core (ECHO PRO; PIs David Cella and Richard Gershon). We are seeking an energetic and highly collaborative scientist who likes working in a fast-paced and entrepreneurial environment. Emphasis of the position will be on psychometric validation and application across a wide variety of measurement activities within the ECHO PRO Core including score-linking, age-linking, generation of short-forms, and developing harmonization protocols across a wide range of measures across the ECHO Consortium. ECHO PRO serves as the Northwestern-based measurement hub for the new NIH ECHO consortium investigating the impact of environmental exposures on children’s health via multiple, harmonized cohorts, each with study-specific and consortium-wide measurement elements (<https://www.nih.gov/echo>). The ECHO PRO Core integrates measurement experts across multiple exposure and developmental health domains to provide study-specific measurement guidance as well as leading development of the consortium common protocol. The Developmental Measurement Analyst will work closely with PRO Core domain leaders and ECHO investigators to orchestrate, facilitate, enable and support measurement activities of the Core. In particular, s/he will support activities of the ECHO-wide common protocol development, and the refining and validating of new and expanded measures for the consortium. Responsibilities include supporting efforts of the interdisciplinary child health domain leadership, serving as liaison to ECHO cohorts seeking measurement support in the child health domain including linkage to appropriate expertise, orchestrating and supporting Core activities focused on generating, refining and/or validating child health measures, creating written SOPs, manuals, protocols, working papers, technical- and progress reports and collaborating on related manuscripts, as well as ensuring timely deliverables.

##### **Qualifications**

The ideal candidate will have considerable quantitative expertise, with a doctoral degree in statistics, quantitative psychology, psychometrics, developmental psychology or a related field and training/experience in team science. Expertise in multi-modal childhood assessment and its psychometric modeling, development, and early influences on health is optimal. A record of scholarly publication and a history of engagement in the conduct of developmental measurement science research are desirable. Strong organizational, problem-solving, writing and communication skills, capability to address day to day tasks and manage competing priorities independently, and collaborative orientation are requisite. Salary and rank will be commensurate with experience and credentials. This is a full time

continuing position.

Interested applicants should contact:  
David Cella, Ph.D., c/o Marcella Clark  
Department of Medical Social Sciences  
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[mss@northwestern.edu](mailto:mss@northwestern.edu)

Applications will be evaluated on a rolling basis until the position is filled.

Send by e-mail the following: 1) a letter of interest including professional goals and areas of research interest; 2) a curriculum vita; 3) names and contact information for 4 references, and 4) representative reprints of publications or submitted manuscripts.

In the subject line of the e-mail please include, "**Developmental Measurement Analyst - ECHO.**"

Final candidates will be interviewed by phone or in person and will be required to produce 4 letters of recommendation. For junior candidates, the work contract will be contingent upon receiving a letter from the Ph.D. program's director stating that all requirements for the Ph.D. have been successfully completed.

*Northwestern University is an Equal Opportunity, Affirmative Action Employer of all protected classes, including veterans and individuals with disabilities. Women and minorities are encouraged to apply. Hiring is contingent upon eligibility to work in the United States.*