PROGRAM MISSION
The mission of the PhD program in Reproductive Clinical Science specializing in Embryology and Andrology at EVMS and the Jones Institute for Reproductive Medicine is to provide excellent graduate education in the preparation of individuals who will direct and manage reproductive laboratories and conduct independent research.

PROGRAM GOALS
- Provide a broad base of graduate education in foundational sciences: comparative reproductive anatomy and physiology, developmental biology, toxicology and infertility, molecular biology, advanced statistics and experimental design.
- Establish a focused knowledge base and competencies using evidence-based practices in the reproductive clinical sciences: embryology, andrology, endocrinology and cryobiology laboratories.
- Promote the development of independent research skills, as well as quality-control skills, which will lead to the development of clear, concise and answerable research or quality improvement questions.
- Foster a positive and collaborative team attitude toward patient care including: patient/gamete management, privacy issues, patient safety and ethical/legal concerns for the clinic and patient.
PROGRAM OVERVIEW

Eastern Virginia Medical School and the Jones Institute for Reproductive Clinical Science is offering a doctor of philosophy degree in Reproductive Clinical Science. This program is designed for applicants who have a master’s degree in Clinical Embryology and Andrology, or a related field with relevant course work, who are experienced Embryologists or Andrologists who seek to become independent researchers and certified embryology/andrology lab directors. This program provides graduate level education in comparative reproductive anatomy and physiology, molecular biology, developmental biology, advanced statistics, experimental design and clinical laboratory.

- Fully online program.
- Designed for adult learners & working professionals.
- Credit hours = 49 completed in 32 months*.
- Two years of graduate level didactic and research development courses.
- Comprehensive qualifying exam at the end of the third semester.
- The program has a focus on independent research.
- In the final semester prepare and defend dissertation projects.
- Six students are accepted each year.
- On campus component for evaluation and teaching.

*Additional credit hours and time may be required to complete research dissertation.

OBJECTIVES

- Evaluate advances in molecular biology, comparative reproductive anatomy and physiology, developmental biology, laboratory management as they apply to the clinical reproductive sciences.
- Direct and manage all aspects of clinical reproductive sciences laboratories: in vitro fertilization (IVF), andrology, endocrinology and gamete cryobanking laboratories.
- Critically evaluate and interpret the current literature as well as federal regulations.
- Develop and implement laboratory processes and procedures to ensure best clinical lab practices, outcomes and compliance.
- Establish and maintain protocol records and data for practice performance quality control and continuous quality improvement as well as for laboratory inspection and accreditation with state and federal regulatory agencies.
- Design, implement and evaluate laboratory research and practice improvement projects through the development of a dissertation research project.
- Create educational and training procedures for clinical staff, physicians and laboratory technicians regarding current methods of assisted reproductive laboratory technologies.
- As a member of an interprofessional clinical team evaluate ethical and legal aspects of ART; design procedures, protocols to address clinic and patient related concerns: privacy, safety and proper legal guidelines.

ADMISSION REQUIREMENTS

- A Master of Science degree is required to apply this program. Accepted topic areas included: Clinical Embryology, Biology, Molecular Biology, Developmental Biology, Reproductive Sciences, or Biochemistry. Other Master’s of Science Degrees may be acceptable.
- Grade point average (GPA) of 3.00 (B) or higher in the master’s degree.
- Prerequisites: Have successfully completed a Master’s in Clinical Embryology and Andrology - OR - in an acceptable master’s, one semester of each of the following: Biochemistry, Introductory Biostatistics, Molecular Cellular Biology, and Developmental Biology or Genetics.
- Established Clinical Embryologist/Andrologist with at least three years of embryology experience. Letters of support from employers indicating level of experience and willingness to allow applicant to perform prospective research projects in their current position.
- Three letters of recommendation (submitted electronically) from individuals who are acquainted with you academically and/or professionally.
- A personal essay.
- International students, or applicants whose native language is not English, must take the TOEFL exam.

EVMS & THE JONES INSTITUTE

In 1981, the first baby conceived via in vitro fertilization was born thanks to the pioneering efforts of the Howard and Georgeanna Jones Institute at EVMS. The Jones Institute became an international leader in clinical and scientific research and trained many prominent physicians and scientists. In 2021, the Jones Institute transitioned all patient care to its affiliated partner Shady Grove Fertility (SGF), a premier fertility center. SGF Jones Institute operates on the EVMS campus in Norfolk, Va.

CONTACT INFORMATION

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