

**VISION**R&D

EYES ON EXCELLENCE

Your partner in  
ophthalmic innovation

---



+1.5 M

Research & Development

---

+300

Projects & Services Executed

---

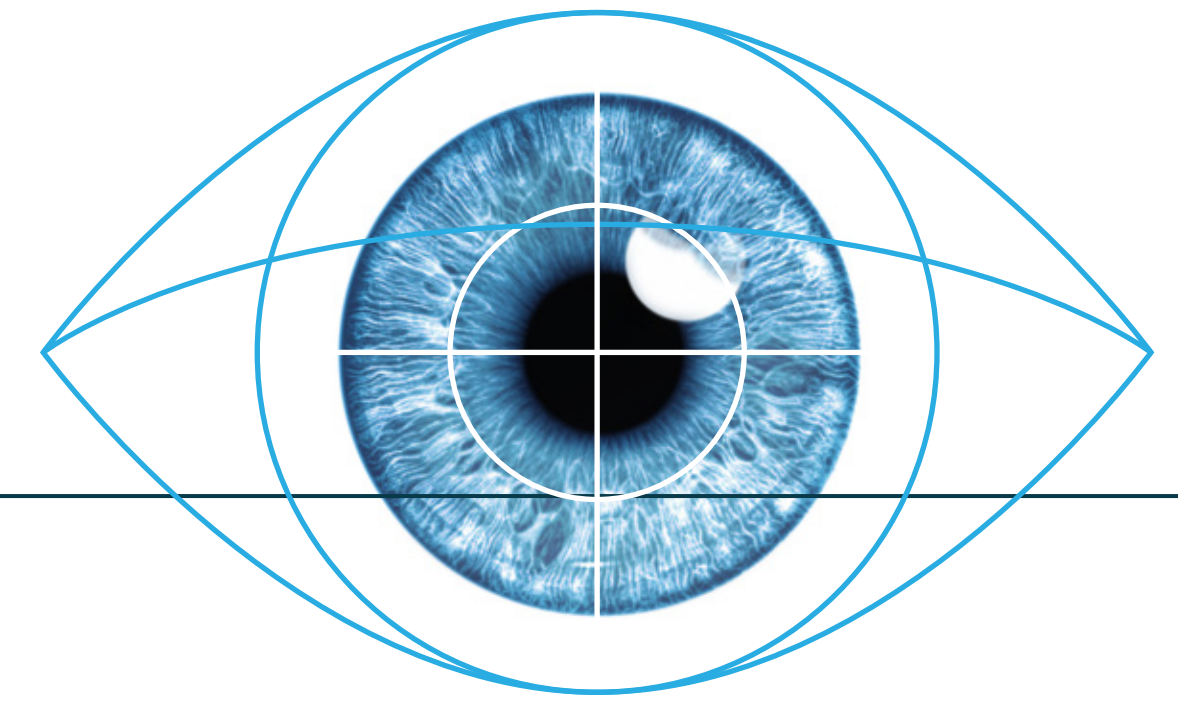
+600 K

International Collaborations



# Overview

---



SINCE 2002

Vision R&D offers comprehensive **analytical services, preclinical and clinical trials** for pharmaceuticals and medical devices, **post-market studies, research and innovation services** and **manufacturing technology transfer**. Established in 2002, the company boasts extensive experience in clinical trials, preclinical evaluations and safety and efficiency assays of ophthalmic products, using various *in vitro*, *ex vivo* and *in vivo* models. Vision R&D emerged as a spin-off from **the University of Valladolid** and its **Instituto Universitario de Oftalmobiología Aplicada (IOBA)** where it is based, sharing facilities, expertise, and laboratories. Our close relationship with the University has consistently fostered and promoted a research environment adapted to the **latest technologies**.

Our **multidisciplinary team** specializes in the **analysis, evaluation, development and regulation** of medical devices, as well as providing research assistance and support. We stand out in the **optimization and development of manufacturing and purification processes** for medical devices, along with the study of delivery systems for pharmaceutical products. Additionally, we conduct comprehensive preclinical evaluations of ophthalmic products.

The advanced technology of our **Controlled Environment Laboratory (CELab)** ensures **maximum quality** and effectiveness, enabling us to conduct **clinical trials** with the smallest necessary number of patients.



# Our Philosophy

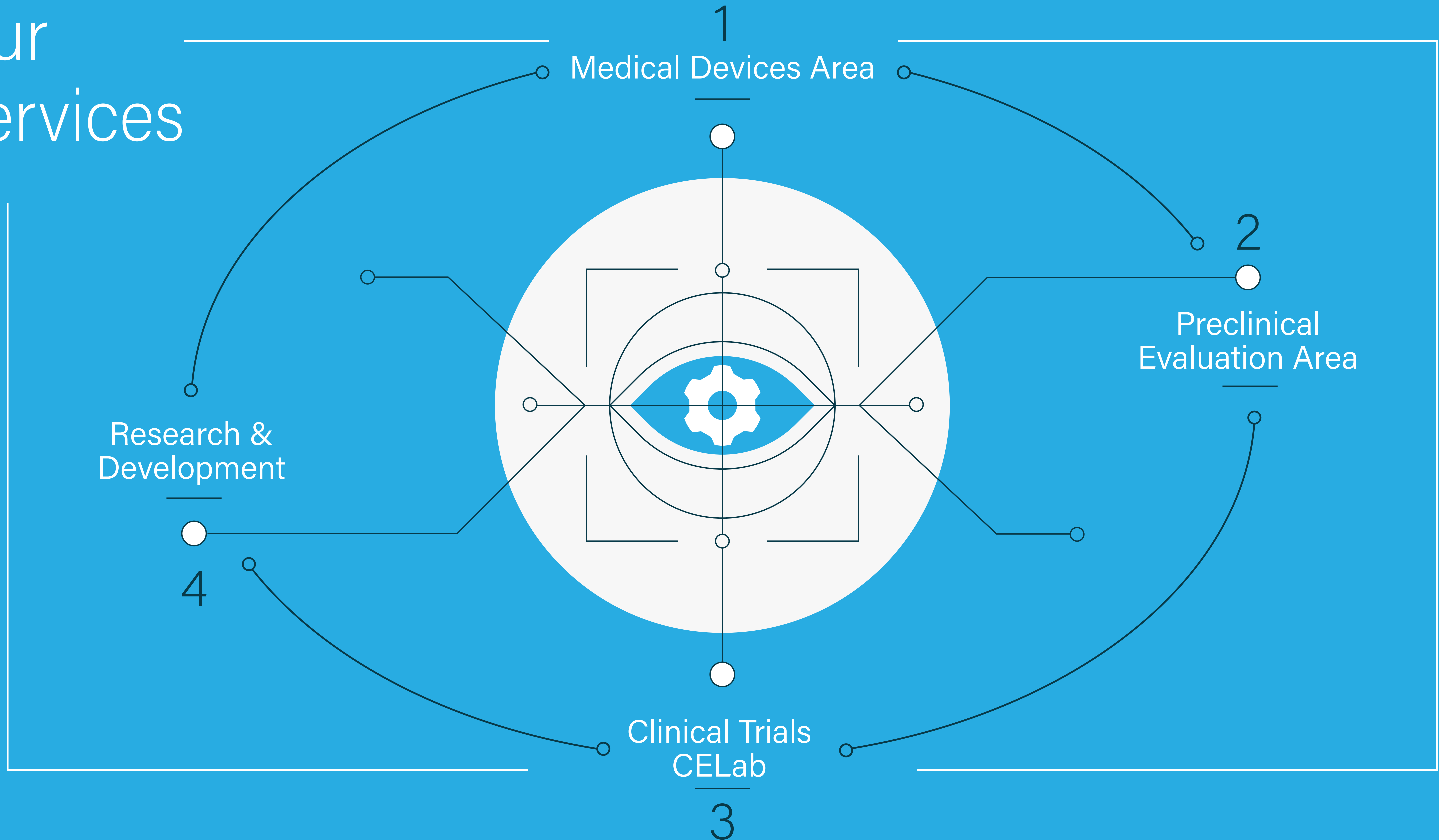
Vision R&D aims to provide its clients with the **best solutions for evaluating their products.**

Throughout our history, we have successfully transferred innovative ideas from bench to market.

Our company reflects a business philosophy focused on **client satisfaction, grounded in innovation, quality, reliability, and professionalism.**

With years of experience, we provide the best human, technical and logistical resources to ensure that our services are tailored to meet our clients' needs.

# Our Services





1

# Medical Devices Area

# 1 Medical Devices Area

Provides assistance to manufacturers and other companies with:

## CONFORMITY ASSESSMENT EVALUATION ACCORDING TO ISO STANDARDS:

- Physico-chemical characterization
- Evaluation of biological safety: biocompatibility and microbiological testing
- Evaluation of product stability
- Implantation tests in animal models

---

## TECHNICAL FILES MDR (EU) 2017/745:

- Clinical evaluation reports:
  - Trend reports
  - Equivalence reports
  - Literature reviews

---

## DEVELOPMENT AND IMPROVEMENT OF MEDICAL DEVICES:

- Development of new products and formulations
- Improvement of purification systems

## POST-MARKET SURVEILLANCE:

Design and execution of post-market studies based on clinical data collection:

- Proactive approach: actively seeking post-market data
- Data analysis and action: analyzing data and literature reviews to update device profiles, design, labeling, and implementing preventive/corrective actions
- Lifecycle implementation: crucial throughout the device's lifecycle, tailored data collection according to risk classification and intended use.





2

Preclinical  
Evaluation Area

# 2 Preclinical Evaluation Area

Our company specializes in testing medical devices and pharmaceuticals specifically designed for ophthalmic use, ensuring the highest standards of quality and efficacy.



## **IN VITRO MODELS**

Analyzing the effect of products on specific ocular human cells, providing valuable insights into their mechanism of action and therapeutic potential.

## **EX VIVO MODELS**

Studying product interaction with healthy and diseased ocular tissue.

## **IN VIVO MODELS**

Faithfully reproducing specific ocular conditions to study treatment response accurately and meaningfully.

## *In vitro / ex vivo*

Ocular surface cytotoxicity

Ocular surface inflammation

Ocular surface oxidative stress

Corneal wound healing

Pig cornea for drug biocompatibility

Retinal cytotoxicity

Neuroretinal degeneration/toxicity

Retinal oxidative stress

## *In vivo*

Corneal wound healing

Limbal stem cell deficiency

Endophthalmitis

Uveal melanoma

Proliferative vitreoretinopathy

Complex vitreoretinal surgery

Retinal detachment



# 3

## Clinical Trials CELab

---

# 3 Clinical Trials – CELab –

In our high-tech Controlled Environment Laboratory (CELab), we focus on designing, coordinating, and conducting clinical trials and post-market studies for pharmaceutical and ophthalmic products.

## OUR BEST COMPETITIVE ADVANTAGE

The CELab is distinguished as the leading facility in Europe, equipped with cutting-edge technology for conducting high-quality research and clinical trials under controlled environmental conditions.

### EXPOSURE ROOM:

- Controlled parameters: relative humidity, temperature, airflow, atmospheric pressure, and illuminance.
- Advantages: customization of environmental conditions:
  - Standard conditions to normalize each patient before conducting clinical tests which allows to avoidance of bias and misleading results.
  - Adverse conditions to elicit an inflammatory flare-up.

### EVALUATION ROOM:

- Controlled parameters: relative humidity and temperature.
- Advantages: conducting comprehensive ocular evaluations using advanced instruments under controlled environmental conditions.

## BENEFITS

1

Customized Studies: Simulate diverse environmental conditions, such as, airplane cabins, indoor spaces (recreational centers, offices, vehicles, homes).

2

Reduced Subject Variability: Minimize the number of subjects required for statistically significant results by eliminating the influence of the environment in the diagnostic tests results.

3

Well-defined therapeutic efficacy: Perform extensive evaluation tests and biomarkers to define the efficacy of the potential therapeutic candidates.

4

Endpoint validation: Validate endpoints for further multicenter clinical trials, eliminating those that show no signal.

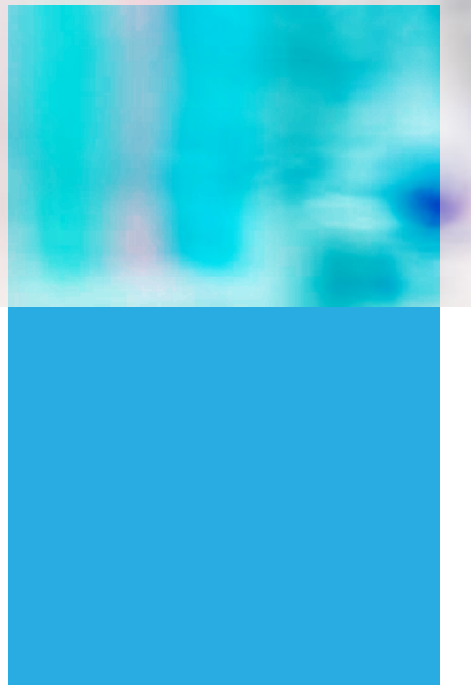
5

Accelerated Commercialization: Increase speed and save economical resources on commercialization programs, drug development and registrations.



# 4

## Research & Development



# 4 Research & Development

## **SUPPORTING RESEARCH IN OPHTHALMOLOGY AND VISION SCIENCES:**

- We leverage our expertise in engineering, chemistry, and biotechnology.
- Supported by robust human and technical resources.
- Empowering researchers and companies in ophthalmology and vision sciences.
- Our services include:
  - Designing, conducting, and executing research and innovation projects.
  - Developing technologies and products.

---

## **DECADES OF EXCELLENCE:**

- Over 20 years' experience in scientific study development for the pharmaceutical and biosanitary sectors.
- Offering tailored advice, consultancy, and personalized experimental design services.
- Guided by our philosophy of taking innovations from bench to market.
- Focus on solving challenges in ophthalmic products.
- Highly specialized, combining the work of researchers with scientific clinicians to effectively address daily practice needs.

## **ACADEMIC COLLABORATION FOR PIONEERING SOLUTIONS:**

- Strategic partnerships with academia to develop solutions for real-world challenges faced by clients.
- Conducting cutting-edge research validated through innovative procedures.
- Facilitating seamless technology transfers.
- Developing protocols that comply with the strict pharma and medical device regulations
- Research activity endorsed by indexed publications.



# Team



José Carlos Pastor  
**CEO**  
**SCIENTIFIC DIRECTOR**



Sara Galindo  
**EXECUTIVE MANAGEMENT**  
**PRECLINICAL EVALUATION AREA DIRECTOR**



Cristina Andrés  
**MEDICAL DEVICES AREA DIRECTOR**



Marta Blanco  
**CELAB**  
**CLINICAL TRIALS PROJECT MANAGER**



Reinaldo Vallejo  
**QUALITY MANAGEMENT**  
**MEDICAL DEVICES RESEARCHER**



Maite García  
**SENIOR LABORATORY TECHNICIAN IN**  
**ANATOMY AND PATHOLOGICAL CYTOLOGY**



Silvia Gallego  
**SENIOR LABORATORY TECHNICIAN**  
**IN ANALYSIS AND QUALITY CONTROL**



**VISIONR&D**

EYES ON EXCELLENCE

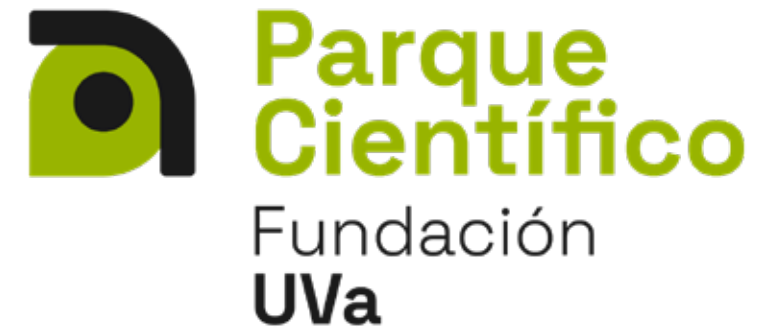


PARTNERS

---



Universidad de Valladolid



SOME OF OUR CLIENTS

---





## Contact

Edificio IOBA

Campus Miguel Delibes · Paseo de Belén 17 · 47011 Valladolid · Spain

visionrd.com

+34 983 186 371

info@visionrd.com

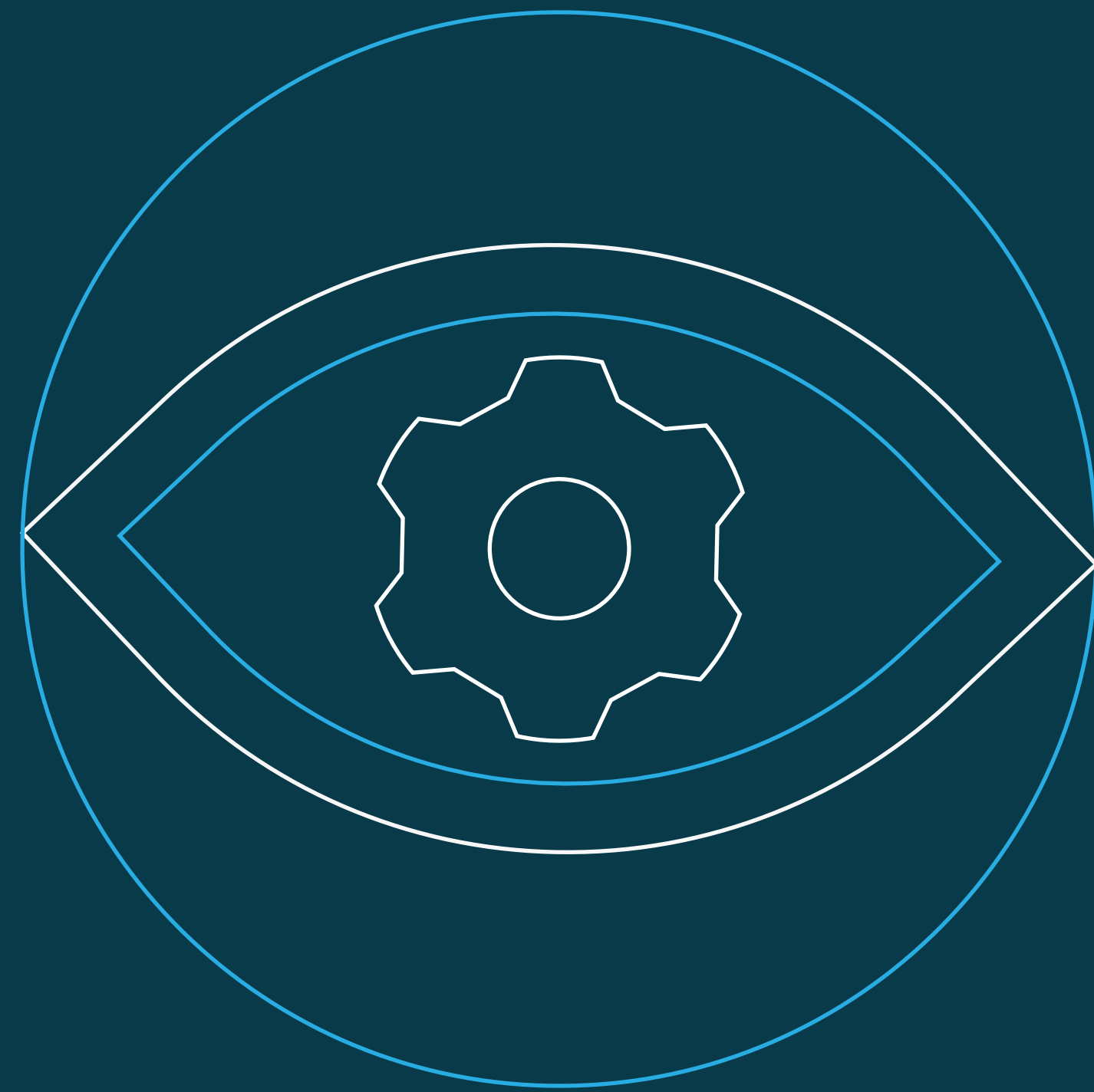
### FOR SPECIFIC INFORMATION:

Clinical Trials: celab@visionrd.com

Medical Devices: candresi@visionrd.com

Preclinical Evaluation: sgalindor@visionrd.com





 **VISIONR&D**  
EYES ON EXCELLENCE