## BSc/MSc-project for students in Biomedical Engineering, DTU/KU

Title: Follow-up functionality and user-friendly presentation of electroretinography (ERG) results

Description: (n.a. if confidential): A method (software) needs to be developed to present and print the ERG results (a curve) overlaid on normative data and enable to compare results from multiple follow-up examinations. The current commercial ERG software (Roland Consult) allows to export ERG examination data in CSV format. By using a third-party software (f.ex. R-project or similar) the CSV data would be used to generate a curve of the ERG responses and to project the patients curve on top of the curve of normative data. A method to compare and present results of follow-up examinations also is very desirable.

ERG (electroretinography) is a method of recording electrical signals from the light sensing part of the eye, the retina. It is used for diagnosing diseases that affect the function of the retina.



Required qualifications: Knowledge of statistical computing and graphics

Responsible institution: KU and DTU

Contact information:

Line Kessel, Overlæge HovedOrtoCenter – Øjenklinikken Øjenklinikken for børn Rigshospitalet – Glostrup line.kessel.01@regionh.dk

Allowed no of students per report: 1-2

KU supervisor: Line Kessel/Tomas Ilginis