#### **Introducing Eriksholm Research Centre**

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# **About Eriksholm**





#### **Demant business areas**









#### **Oticon's break-through innovations**



## A brief history of Eriksholm



- 1977 Eriksholm Research Centre opening
- 2001 New building added
- 2014 Brain Hearing Lab added, extended 2019



## Who works at Eriksholm?

Around 40 people: 25 permanent staff (including support functions) 5-10 temporary staff (e.g. postdocs) 5-10 MSc and PhD students

- representing more than 12 nationalities.

Speech & language pathologist Audiology assistant Audiologist

Business languages Communication Facility management Economics Biomedical engineering Acoustical engineering Cognitive neuroscience Psychology Physics Electrical Engineering





#### **Research areas and organizational roles**







## If you wish to learn more: website + social media channels



Click here to see the Eriksholm Research Centre introduction video

Latest news

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# **Research at Eriksholm**





## Hearing loss: Changes in hearing abilities, cognition & behaviour

How should technology respond?





Hearing aid development is driven by societal & technological trends and shaped by new insights into human behavior, hearing loss and broader health outcomes.





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# **Project proposals**

- 1. A multi-dimensional space-time-frequency representations in speech perception.
- 2. An eye on fatigue.
- 3. Analyzing Neural Speech Tracking of Multi-Talker Speech for Improved Hearing Aids.
- 4. Audiovisual brain processing correlates using lip-reading.
- 5. Deep and Generative Brain Tracking of Sound.
- 6. Deep learning for phonetic transcriptions with continuous speech.
- 7. Synthetic Audiovisual Stimuli Generation with Deep Learning.
- 8. Self-supervised attention decoding.





#### **Eriksholm at a glance**





Personalised audiology



Cognition & listening effort



Intent-controlled hearing technologies

