Kelloseppäkoulu
The Finnish School of Watchmaking

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Steady hands ready to turn your ideas into reality

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80 Years of Watchmaking Education

Established in 1944

MICROMECHANICS EDUCATION SINCE 1997

The Finnish School of Watchmaking 2025

INTAKE PER YEAR	STUDENTS	FULL-TIME STAFF	PART-TIME STAFF
30 226 APPLICANTS	97	10	4

ESTABLISHED	1944
OWNERSHIP	Kellosepäntaidon Edistämissäätiö sr. (Foundation)
LOCATION	LEPPÄVAARA, ESPOO, FINLAND
FUNDING	STATE-FUNDED DEGREE PROGRAMMES

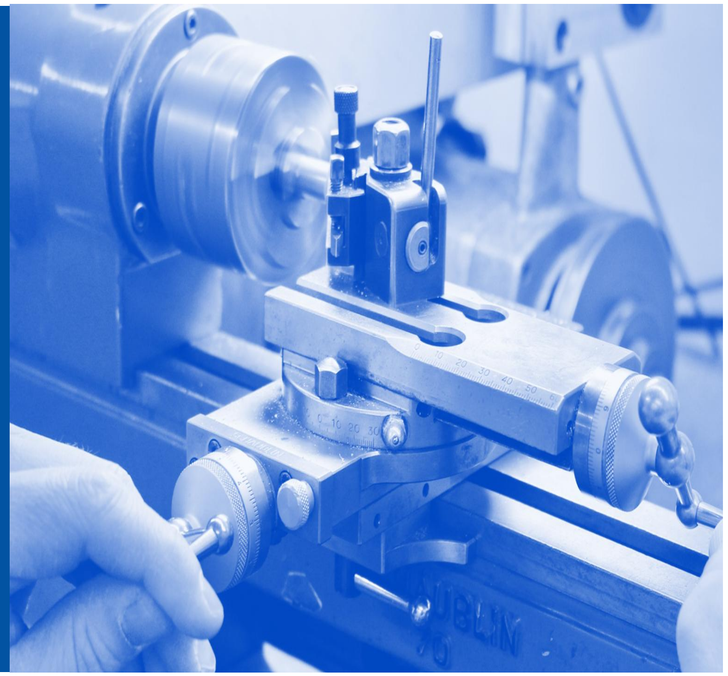
DEGREE PROGRAMS

DEGREE	AVERAGE LENGHT	WORK PLACEMENT
Watchmaker (15)	3 YEARS	3 MONTHS
Micromechanic (15)	3 YEARS	4 MONTHS
Artesan (15) (Jewellery and watch sales)	2-3 YEARS	Apprenticeship

ABOUT US

Vocational excellence in manual skills since 1944.

Watchmakers have the steadiest hands in the world!



THE FINNISH SCHOOL OF WATCHMAKING

A highly specialized **vocational education and training institution**

Degree programme in Micromechanics since 1997

Focus on high quality learning in class

Graduates competent not only in manuals skills, but also capable of problems solving in R&D work

Strong network of partners

MICROMECHANICS

A graduate from our micromechanics specialization utilizes the traditional manual skills of the watchmaker to create applications for new technology.

Innovation Collaboration

- Collaboration with our Micromechanics Department differs from a typical training agreement period or client work conducted within the school’s learning environment.
- In the innovation collaboration method, the school’s personnel leads the project as student work, in cooperation with the client. This enables micromechanical development work, especially when the company lacks resources in micromechanics or joining techniques.
- Often, especially in high-tech startups, there may not be an existing micromechanics expert available within the company. Therefore, it can be challenging to involve a student from a new field in projects.

Examples of innovation collaboration projects

- Ideation, conceptualization, and prototype manufacturing
- Development of a production method or tool for new or existing assembly work
- Quality improvement projects

An agreement on innovation collaboration is made between the company and the Foundation for the Advancement of Watchmaking Skills.

Client Work in the School’s Learning Environment

The Micromechanics Department of the Finnish School of Watchmaking can undertake **the production and assembly of single pieces and small series**. We are happy to explore collaboration possibilities!

Training Agreements and Apprenticeships

A student carries out a product development project together with their workplace supervisor. This model requires intensive guidance from a workplace supervisor skilled in micromechanics. The teacher visits the workplace and plans the competence objectives and demonstrations together with the workplace supervisor. Typically, the student has 8 weeks to complete the product development project.

THE PROBLEM WE SOLVE

There is a **lack of microfabrication competencies** in the Finnish technology sector forming a serious bottleneck for growth.

Design for Manufacturing is challenging

- R&D experts often create their own prototypes. However, they often **lack the skills needed to handle the micromechanic parts fast and cost effectively**.
  - They also may not use the latest technology due to lack of knowledge of manufacturability.
- **Cost of modifications is high** as experts are not readily available. -> need to send parts across continents and allow suppliers dictate prices for modifications.
- Research institutions and startups do not often hire their own micromechanics due to sporadic need for such talent.
- Time to market is very slow and R&D cost higher than necessary.

OUR SERVICES & CONTRIBUTION

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Spare Hands

Urgent tasks needing special manual skills. A reserve of talents waiting to assist you e.g. in the clean room environment.

Standing Purchase Order

To facilitate frequently recurring need for assistance in product development over a specified period of time.

Longer term, non-urgent DfM projects

A grey room facility within our learning environment to support non-urgent projects requested by the ecosystem.

Skills at your disposal

- Making parts with outrageous tolerances
- Creating even surfaces
- Problem solving of microfabrication challenges
- Assembly line –ready spare hands

- Recruitment of international talents
- Training own employees with shorter courses with us.

BENEFITS

Increase in Productivity

Design for Manufacturing

Ability to use latest technology & smallest parts

On-demand spare hands

01
Productivity

Reduction in Cost

Supplier at your premises

“in-house” knowhow

Trainee contracts with teacher resource

02
Cost reduction

03
Time to market

Faster Time to Market

DfM

Fast problem solving

Short logistics chain

Steady hands ready to turn your ideas into reality


KELLOSEPPÄKUJA

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