



**digital
luxembourg**
innovative initiatives.

skills database.

youth

labor force

ICT specialists

citizens

skills database.

Since its inception in 2014, Digital Luxembourg has launched and implemented a diverse set of measures, pilot projects and initiatives in the ICT domain with tangible results. Initiated by either the public or private sector, these measures are crucial/instrumental in creating an environment in which digitalization can thrive and generate innovation and growth.

The development of the right digital skills for life and work is one of Digital Luxembourg's key priorities.

Due to the rise of digitalization and the accelerated transformation of our economy and society, nurturing and boosting the population's digital skills has become crucial, and the need for digitally qualified women and men will grow exponentially in the near future. It follows that a tech-savvy population will be a key factor in order to use digitalization as a lever for transformation, to prepare Luxembourg for the future and to harness the huge potential that new technologies can offer.

In an effort to track and map the efforts made in this domain, this document contains a first version of a comprehensive list of the various initiatives, companies, associations and other projects that offer various kinds of courses and certifications, as well as traineeships and workshops in the domain of digital skills.

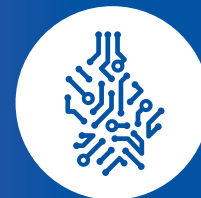
We hope that this document will serve as a valuable guide and stepping-stone for those who wish to build and expand their digital skills. The various offers indexed in this document are organised by target audience: Education & youth, Professionals, ICT specialists and Citizens. However, this is intended to be a rough guide – so feel free to have a look at every section!

Digital Luxembourg wishes everyone all the best in their digital journey!

youth

digital luxembourg

innovative initiatives.



Bee Secure for Schools

Service National de Jeunesse

Obligatory course about safe internet browsing aimed at first year high school students. A special course is also available for last year primary school pupils.

Type: School education

www.beesecure.lu

eduDocs

Ministère de l'Education, CGIE

Repertoire of more than 40.000 pedagogical resources for pupils and teachers.

Type: School education

www.edudocs.lu

eduWiFi

Ministère de l'Education, CGIE

Free internet access over WiFi for schools.

Type: School education

www.education.lu

eSchoolbooks

Ministère de l'Education, CGIE

Online access to schoolbooks.

Type: School education

www.eschoolbooks.lu

IAM 4 Kids

Ministère de l'Education, CGIE

A unique digital identity for primary school pupils in order to access digital applications that are part of the national education curriculum.

Type: School education

www.education.lu

Makerspaces for primary school pupils

Service National de Jeunesse

Creative ICT experimentation spaces for children and youngsters at "maisons relais", primary schools and "Base 1" of the Forum Geesseknäppchen.

Type: School education

www.snj.lu

Makerspaces for high school students

SNJ, Ministère de l'Education, SCRIPT

Creative ICT experimentation spaces for youngsters in different high schools (Arts & Métiers, Esch, Wiltz, Ettelbruck)

Type: School education

www.snj.lu

BTS Computer Science, Animation, Game Programming and Game Design, Graphic Design, Internet of Things, and DAP in Computer Science

Ministère de l'Education

BTS diploma in computer science and related subjects, and DAP in Computer Science.

Type: School education

www.lte.lu

Label "Future Hub"*Ministère de l'Éducation, SCRIPT*

A label for high schools that embrace new technologies and an innovative learning approach in relation to science, and particularly computer science (previously the "pole informatique").

Type: School education

www.futurehub.lu

Section I*Ministère de l'Éducation, SCRIPT*

Creation of a section for computer science and communication technologies in the academic branch of secondary education.

Type: School education

www.men.public.lu

Digital 4 Education*Ministère de l'Éducation*

A strategy of the Ministry of Education aimed at youngsters that includes awareness raising initiatives in relation to new technologies, as for instance "app-based education."

Type: School education

www.education.lu

oli.education.lu*Ministère de l'Éducation, CGIE*

An online learning, management and publishing platform for primary school education.

Type: School education

oli.education.lu

WebUntis*Ministère de l'Éducation, CGIE*

An online class-register for high schools.

Type: School education

www.webuntis.com

REENGAGE*LIST, international partner schools*

The RE-ENGAGE project involves: (1) assessing to what extent previously shared methods are effective in allowing students, who have already dropped out or appear to be likely to do so, to find a renewed interest in learning as well as a sense of satisfaction in returning to school, and (2) introducing new teaching practices at five partner schools.

Type: Extra-curricular training, research

www.list.lu

Kniwwelino*Service National de Jeunesse, SCRIPT, FNR, LIST*

The Kniwwelino hardware is the first micro-controller development platform entirely designed for primary school children in Luxembourg. Children can explore how to program with a visual programming language small applications.

Type: Extra-curricular training, research

www.kniwwelino.lu

CISCO Network Assistant*Chambre des Salariés, CISCO Networking Academy*

ICND1 et ICND2 de CISCO CCNA Routing and Switching certifications offered to DAP an BTS Informatique graduates as a complement to their diploma.

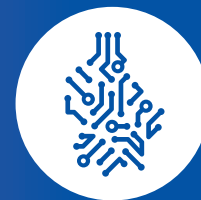
Type: Extra-curricular training

www.lllc.lu

youth

digital luxembourg

innovative initiatives.



Coding 4 Kids

Code Club

Coding workshops organised by the Code Club in collaboration with the maisons relais and the Service National de Jeunesse

Type: *Extra-curricular training*

www.codeclub.lu

European Computer Driving Licence (ECDL)

Chambre des Salariés, ECDL Foundation

Certification based on the ECDL curriculum in order to provide basic computing skills to participants, rendering them more attractive on the labour market.

Type: *Extra-curricular training*

www.lllc.lu

LuxTechSchool

Sergio Coronado, Ministère de l'Education, SCRIPT, CGIE

Courses fostering digital and entrepreneurial skills aimed at passionate 15-18 year old youngsters. The first year comprises three modules: Game development, Big Data, FinTech (with a large programming component)

Type: *Extra-curricular training*

www.techschool.lu

Apps for Good

British Chamber of Commerce, St George's International School, International School of Luxembourg, Schola Europea, SNJ

Apps for Good unlocks the confidence and talent of young people (10-18 yrs) through creative learning programmes, in which students use new technologies to design and make products that can make a difference to their world. (Concept international décliné au Luxembourg)

Type: *Awareness raising*

www.appsforgood.org

Bee Creative

Service National de Jeunesse, SCRIPT

An initiative aimed at youngsters that fosters creativity based on the use of technological tools and new media (ICT literacy). Promotes creativity, talents and team spirit in the context of ICT.

Type: *Awareness raising*

www.beecreative.lu

Code Club

Code Club

Non-profit that promotes coding among youngsters by running coding competitions.

Type: *Awareness raising*

www.codeclub.lu

BTS Réseaux de télécommunications

Ministère de l'Education

New BTS diploma in computer science.

Type: *School education*

www.ltam.lu

Hack4Kids

Securitymadein.lu

Programme supporting the development of digital competencies from a young age. This includes the learning of coding skills through games and creativity.

Type: *School education*

www.ltam.lu

Magazine Bee Creative*Service National de Jeunesse*

A magazine about the activities of the BEE CREATIVE / Makerspace network and its partners (companies, associations,...)

Type: Awareness raising

www.beecreative.lu

Pedagogical material provided by Bee Creative*Service National de Jeunesse*

Pedagogical IT resources are made available in order to raise awareness among youngsters about creative activities in relation to coding.

Type: Awareness raising

www.beecreative.lu

Rails Girls Luxembourg*Women in Digital Empowerment*

Ruby on Rails coding workshops for girls and women in a convivial and playful environment. Organizer in Luxembourg: Women in Digital Empowerment (www.wide.lu)

Type: Awareness raising

www.railsgirls.com

Design-an-app for Equality*Women in Digital Empowerment*

Workshop to design a mobile app on gender & equality topics in a collaborative way (16-25 years)

Type : Event

www.wide.lu

DigiRallye*Service National de Jeunesse*

Rallye about 10 "key reflexes" in relation to safer internet browsing by children (Maisons relais)

Type : Event

www.snj.lu

Make@on*Service National de Jeunesse*

« Make-a-thon » style events aimed at groups of youngsters.

Type : Event

www.snj.lu

Makerfest*Service National de Jeunesse, Bee Creative, LIST*

Creative workshop for youngsters (coding, technology, wearables, digital design, robots, 3d printing, gaming, etc.)

Type : Event

www.snj.lu

Gestures in Tangible User Interfaces*Luxembourg Institute of Science and Technology*

GETUI conducts user studies to investigate the use of gestures on Tangible User Interfaces (TUIs) in the context of technology-based assessment of collaborative and complex problem solving skills. There are two user studies in Luxembourg (European School Luxembourg and Lycee Technique Esch/Alzette) and one in Arlon (Institute Sainte-Marie)

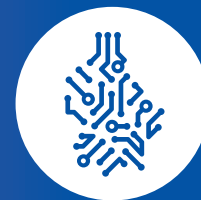
Type : Others

www.list.lu

youth

digital luxembourg

innovative initiatives.



Raise Volunteers in Tech - Erasmus +

Women in Digital Empowerment

Create online resources to manage volunteers in the field of Digital Education.

Type : *Others*

www.wide.lu

StartUP

Ministère de l'Education

Extra-curricular training to raise awareness about entrepreneurship among students.

Type : Extra-curricular training

www.men.public.lu

Computer Science option for high school classes

Ministère de l'Education

Awareness raising about ICT subjects among high school students.

Type : *School education*

www.men.public.lu

Creative Lab

Ministère de l'Education

Makerspace for STEM training including Art (STE[A]M).

Type : Extra-curricular training

www.men.public.lu

Cyber workshop

Ministère de l'Education

A modern classroom to explore new perspectives for training and teaching.

Type : *Extra-curricular training*

www.men.public.lu

Open space for teachers and students

Ministère de l'Education

Work and experimentation space to explore new technologies for education.

Type : *Research, awareness raising*

www.men.public.lu

First Global

Ministère de l'Education

Participation in the First Global Challenge, an international competition revolving around robots and social subjects.

Type : *Extra-curricular training*

www.men.public.lu, first.global

iPads and laptops for pupils

Ministère de l'Education

Integration of iPads and laptops into the learning process in order to develop "mobile learning".

Type : *School education*

www.men.public.lu

Azure

Ministère de l'Education

Pilot project exploring how to overcome infrastructure issues and to raise awareness about cloud technologies.

Type : *Other*

www.men.public.lu

Technician training in 3D, Graphic Design, Computer Science

Ministère de l'Éducation

Technician training in various domains related to ICT.

Type : Other

www.men.public.lu

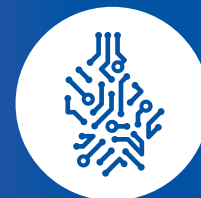
Deployment of a Learning Management System for education

Ministère de l'Éducation

Large scale usage of an online LMS for students.

Type : Other

www.men.public.lu



Bachelor in Computer Science

Chambre des Salariés, University of Luxembourg

This course is aimed at professionals that are working or have worked in the domain of computer science. It focusses on the fundamental competencies of computer science and is rounded off with specialized courses in more specific areas (coding, web, databases, ...).

Type: Extra-curricular training

www.lllc.lu, www.uni.lu

Certification Kryterion

Chambre des Salariés, Kryterion Online Proctoring

International certification that :

- Raises user confidence
- Confirms the knowledge of certain skills
- Increases employability and mobility
- Increases productivity and the quality of work done on a computer

Type: Extra-curricular training

www.lllc.lu

Certification Pearson Vue

Chambre des Salariés, Pearson Vue IT Certification

International certification that :

- Raises user confidence
- Confirms the knowledge of certain skills
- Increases employability and mobility
- Increases productivity and the quality of work done on a computer

Type: Extra-curricular training

www.lllc.lu

Evening classes

Chambre des Salariés

Evening classes fostering IT and office software skills, open to a large range of participant profiles. Successful completion of the classes will be awarded with a diploma delivered by the Ministry of Education.

Type: Extra-curricular training

www.lllc.lu

CISCO evening classes

Chambre des Salariés, CISCO Networking Academy

Evening classes for Cisco networking skills.

Type: Extra-curricular training

www.lllc.lu

Cybersecurity Competence Center

Securitymadein.lu, Ministère de l'Economie

Public-private partnership dedicated to threat intelligence, specialised training and testing of new cybersecurity products.

Type: Extra-curricular training

www.c-3.lu

European Computer Driving Licence*Chambre des Salariés, ECDL Foundation*

IT training courses. Four certificates and a total of fourteen modules and tests are offered.

Type: *Extra-curricular training*

www.lllc.lu

Fit4Coding*ADEM, Ministère du Travail, NumericALL*

Professional retraining course for job seekers with a passion for new technologies. By the end of the course, participants possess the required qualifications to work as a programmer.

Type: *Extra-curricular training*

www.adem.lu

Start & Code*Fondation JP Morgan, ADEM, Ministère du Travail*

Courses for disadvantaged youngsters and young immigrants or refugees (up to 30 years of age).

Type: *Extra-curricular training*

www.startnocode.lu

Courses of the Chambre des Métiers*Chambre des Métiers*

Continuing education courses on digitalization adapted to the specific requirements of artisan businesses.

Type: *Extra-curricular training*

www.cdm.lu

Courses of the Chambre des salariés*Chambre des Salariés*

Seminars fostering knowledge of office software such as Excel, Outlook, Illustrator, Indesign, Photoshpe, etc.

Type: *Extra-curricular training*

www.lllc.lu

Ecole Supérieure du Travail courses*Ecole Supérieure du Travail, Securitymadein.lu*

Data security courses.

Type: *Extra-curricular training*

www.gouvernement.lu/est

Companies and e-gouvernement courses*Chambre des Métiers*

Courses on e-government topics (to be finalised).

Type: *Extra-curricular training*

www.cdm.lu

House of Training courses*House of Training*

Customised courses for specific business sectors.

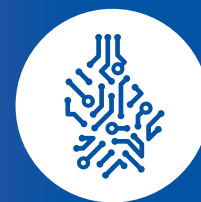
Type: *Extra-curricular training*

www.houseoftraining.lu

labor force

digital luxembourg

innovative initiatives.



Master in Information Systems Security Management

University of Luxembourg, LIST

Master degree for professionals in information security management.

Type: Extra-curricular training

www.uni.lu

Lifelong-Learning.lu courses

INFPC, Ministère de l'Education

Continuing education courses, including ICT courses (computer science, programming, software, telecommunication)

Type: Extra-curricular training

www.lifelong-learning.lu

Women coding learning group

Women in Digital Empowerment

Regular Saturday coding sessions for women

Type: Extra-curricular training

www.wide.lu

OpenClassrooms

OpenClassrooms, ADEM

Free OpenClassrooms courses in French, English and Spanish of up to six months for job seekers registered with ADEM.

Type: Extra-curricular training

www.adem.lu

Luxembourg Digital Skills Bridge

Ministère du Travail

Continuing education for employees in order to prevent layoffs and unemployment.

Type: Extra-curricular training

www.mte.public.lu

Pakt pro artisanat

Chambre des Métiers

Programme providing support to artisan businesses in relation to their digital transition. Includes awareness raising to encourage businesses to take up continuing education courses.

Type: Awareness raising

www.cdm.lu

Collaboration Chambre des métiers - Fablab

Chambre des Métiers, Fablab

An initiative for artisan businesses that allows them to discover the digitalization opportunities of their manufacturing procedures in a lab setting.

Type: Awareness raising

www.cdm.lu

Fit4Digital

Luxinnovation

Aids to support small and artisan businesses with the integration of digital technologies.

Type: Awareness raising

www.luxinnovation.lu

Data protection and cybersecurity

Securitymadein.lu, Chambre des Métiers, Allen & Overy, EEN

Conference cycle about the digital transition at the service of businesses.

Type: Event

www.cdm.lu

BIM4VET (project Erasmus+) Standardised Vocational Education and Training for BIM in EU

Luxembourg Institute of Science and Technology

- 1) Develop a transparent and harmonized competence matrix for BIM actors accross Europe
- 2) Standardize BIM missions and processes at EU scale, taking into account the international BIM developments already existing
- 3) Classify and harmonize BIM training curriculum and certification schemes.

Type: Other

www.list.lu

BIMEET BIM-based EU-wide Standardized Qualification Framework for achieving Energy Efficiency Training

Luxembourg Institute of Science and Technology

BIMEET aims to broaden the BIM training agenda to support the European union building energy efficiency agenda. This requires broad awareness and expertise in BIM practice across different asset types and different roles in the industry.

Type: Other

www.list.lu

Outil auto-évaluation des compétences "Cross Skill"

Luxembourg Institute of Science and Technology

Tool allowing for competency assessment questionnaires (self-assessment or assessment by others) to be generated based on any job descriptions or competency profiles. It measures both technical and behavioural competencies.

Type: Other

www.list.lu

Plateforme "EAGLE": Enhanced Gov- ernment Learning

*Luxembourg Institute of Science and Technology,
INAP*

Learning and knowledge sharing platform for public administrations.

Type: Other

www.list.lu

INAP courses

INAP, CASES, Ministère de l'Economie

Courses in data security for government employees and civil servants.

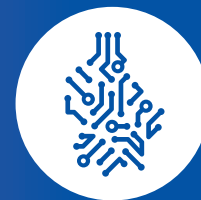
Type: Extra-curricular training

www.inap.public.lu

ICT specialists

digital luxembourg

innovative initiatives.



ETIS - 3rd European Tangible Interaction Studio

Luxembourg Institute of Science and
Technology

Summer school about tangible interfaces.

Type: *Extra-curricular training*

www.list.lu

Computer Science and Communications Research Unit

University of Luxembourg

Fundamental and applied research in the area of computer, communication and information sciences. The goal is to push forward the scientific frontiers of these fields. Additionally, support for the educational tasks at the academic and professional Bachelor and Master levels is provided as well as for the PhD program.

Different Master + Bachelor programmes

Type: *Extra-curricular training*

www.uni.lu

Master smart ICT

University of Luxembourg, ILNAS

An agreement between ILNAS and Uni.lu for the creation of a master degree and related ICT research activities.

Type: *Extra-curricular training*

www.uni.lu

Uni.lu - SnT

University of Luxembourg

Interdisciplinary Centre for Security, Reliability and Trust: internationally competitive research in ICT, with high relevance creating socio-economic impact. In addition to long-term, high-risk research, SnT engages in demand driven collaborative projects with industry and the public sector.

Type: *Extra-curricular training*

www.uni.lu

CASES.lu

Securitymadein.lu, Ministère de l'Economie

Cybersecurity services aimed at small and medium businesses, including tailor-made courses taught by experts in the field.

Type: *Awareness raising*

www.cases.lu

CIRCL

Securitymadein.lu, CIRCL

The Computer Incident Response Center Luxembourg (CIRCL) is a government-driven initiative designed to provide a systematic response facility to computer security threats and incidents and to foster knowledge and awareness exchange in ICT security.

Type: *Awareness raising*

www.circl.lu

HelloFuture

FEDIL

Matchmaking and internship platform for the industrial sector (hellofuture.lu)

Type: *Awareness raising*

www.hellofuture.lu

SECURITYMADEIN.lu

Ministère de l'Economie

A portal for Luxembourg's cybersecurity ecosystem.

Type: Awareness raising

www.hellofuture.lu

Women in Digital Empowerment (WIDE)

Women in Digital Empowerment

Conferences and awareness raising.

Type: Awareness raising

www.wide.lu

Women Startup Leadership program

Women in Digital Empowerment

The programme aims to identify 10 women in Luxembourg with great potential to become digital - startup entrepreneurs, especially in fields where they are nearly absent at the moment (Fintech - IOT - AI - Blockchain ...)

Type: Awareness raising

www.wide.lu

Adopt a Developer

Silicon Luxembourg

Matchmaking event between entrepreneurs and developers

Type: Event

www.siliconluxembourg.lu

Foire Digital Plug & Work (Moovijob)

Moovijob, ADEM, Ministère du Travail

Recrutement fair for ICT specialists.

Type: Event

www.moovijob.com

Game Of Code (Hackathon)

Farvest

Hackathon revolving around the topic of quality of life with two challenges. Group work with groups of 3-4 participants. Pitching sessions that are open to the public.

Type: Event

www.gameofcode.eu

Global Game Jam (Hackathon)

Technoport

Hackathon (48h) about game development (localised version of an international concept)

Type: Event

ggj.extra-coin.org

Hack.lu

CIRCL

Annual conference about new technologies, cybersecurity and its cultural and technological impact on society, open to ICT specialists and the general public.

Type: Event

www.hack.lu

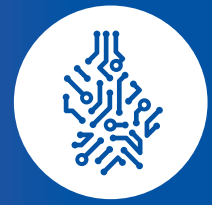
Women in FinTech Conference

Women in Digital Empowerment

Series of conferences aiming to raise awareness among women on Fintech opportunities & digital skills needed to embrace change in the financial sector

Type: Event

www.wide.lu



ICT specialists

digital luxembourg

innovative initiatives.

Cybersecurity4success

Securitymadein.lu, Chambre de Commerce, Commission Européenne, House of Training, EEN

Awareness raising day offering concrete and practical information about data and cybersecurity management for small and medium enterprises.

Type: Event

www.securitymadein.lu

Morpheus Cup

Farvest, University of Luxembourg

Competition that aims to bring together students and their future employers by virtue of an innovation lab.

Type: Event

www.morpheuscup.com

Formations ErwuesseBildung*ErwuesseBildung a.s.b.l.*

Large variety of continuing education courses.

Type: Extra-curricular training

www.erwuessebildung.lu

LifeLongLearning courses*INFPC*

Continuing education courses in ICT (computer science, programming, software, telecommunication)

Type: Extra-curricular training

www.infpc.lu

BEE Secure*Service National de Jeunesse*

Awareness raising about a safer use of digital technology for citizens.

Type: Awareness raising

www.beesecure.lu

BEE SECURE Helpline*Kanner-Jugend Telefon, Service National de Jeunesse*

Toll free hotline for all questions revolving around a safer use of the internet.

Type: Awareness raising

www.beesecure.lu

Digital Inclusion*Digital Inclusion a.s.b.l.*

Non-profit that aims to increase the social inclusion of disadvantaged individuals in the digital domain, notably by facilitating access to new technologies, the provision of IT material and the recycling thereof, and the offering of free courses. The majority of activities are organised by volunteers with an interest in ICT, often without employment. The association also offers workshops to increase employability.

Type: Extra-curricular training, sensibilisation

digital-inclusion.lu

WOW Code 2 Confidence - Erasmus +*Women in Digital Empowerment*

Share of best practices on how coding skills can improve confidence, employability, sense of creativity & entrepreneurship for women.

Type: Awareness raising

www.wide.lu

EU CODE WEEK*Women in Digital Empowerment, Rails Girls Luxembourg*

Pan-european initiative supported by the European Commission to encourage citizens to learn coding

Type: Event

www.wide.lu

European Cybersecurity Month (ECSM)*Ministère de l'Economie, CASES*

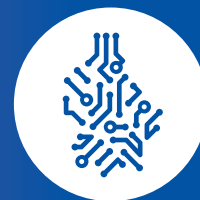
Campagne annuelle de sensibilisation à la cybersécurité organisée par ENISA, DGCONNECT et les pays partenaires

Type: Event

www.eco.public.lu

citizens

digital
luxembourg
innovative initiatives.



Researcher Days

FNR

Interactive and playful showcases for the general public

Type: Event

www.fnr.lu

Science Festival

MNHN, FNR, LIST

Interactive and playful showcases for the general public

Type: Event

www.mnhn.lu/

Fete des hauts fourneaux

Fonds Belval, LIST

Showcases at the showroom and lab of the Luxembourg Institute for Science and Technology.

Type: Event

www.list.lu

LIST OPEN DAYS

LIST

Showcases at the showroom and lab of the Luxembourg Institute for Science and Technology.

Type: Event

www.list.lu