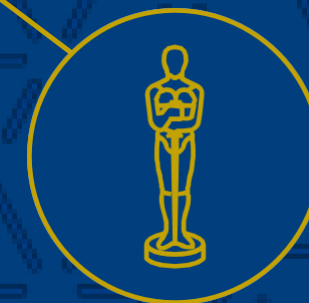


Film and video production technology

Dr. Femi Adeyemi-Ejeje
Admissions Officer
&
Alan Haigh
Programme Director





“The UK has the best engineers and the best production teams in the world. There is a vibrant broadcast market. We need graduates who are creative and technically clever.”

Peter Taylor, Production Engineering Manager, BBC



An introduction to the degree

»_Please visit this link for an introduction: <https://youtu.be/mIN880oJqxl>

Why is this degree relevant to today's industry?

The UK Creative Economy 2018

JOBS

The Creative Economy 2018

3.2 MILLION JOBS

1 IN **11** PLACES

81k

CREATIVE ECONOMY JOBS ADDED IN 2018

EMPLOYMENT

Employment in the UK creative economy 2018



Total **2.2m** jobs in the UK creative economy

creative economy = **A+B+C**

creative industries = **A+B**

REGIONS

Number of creative industries jobs in region 2018
Figures rounded to 1000s



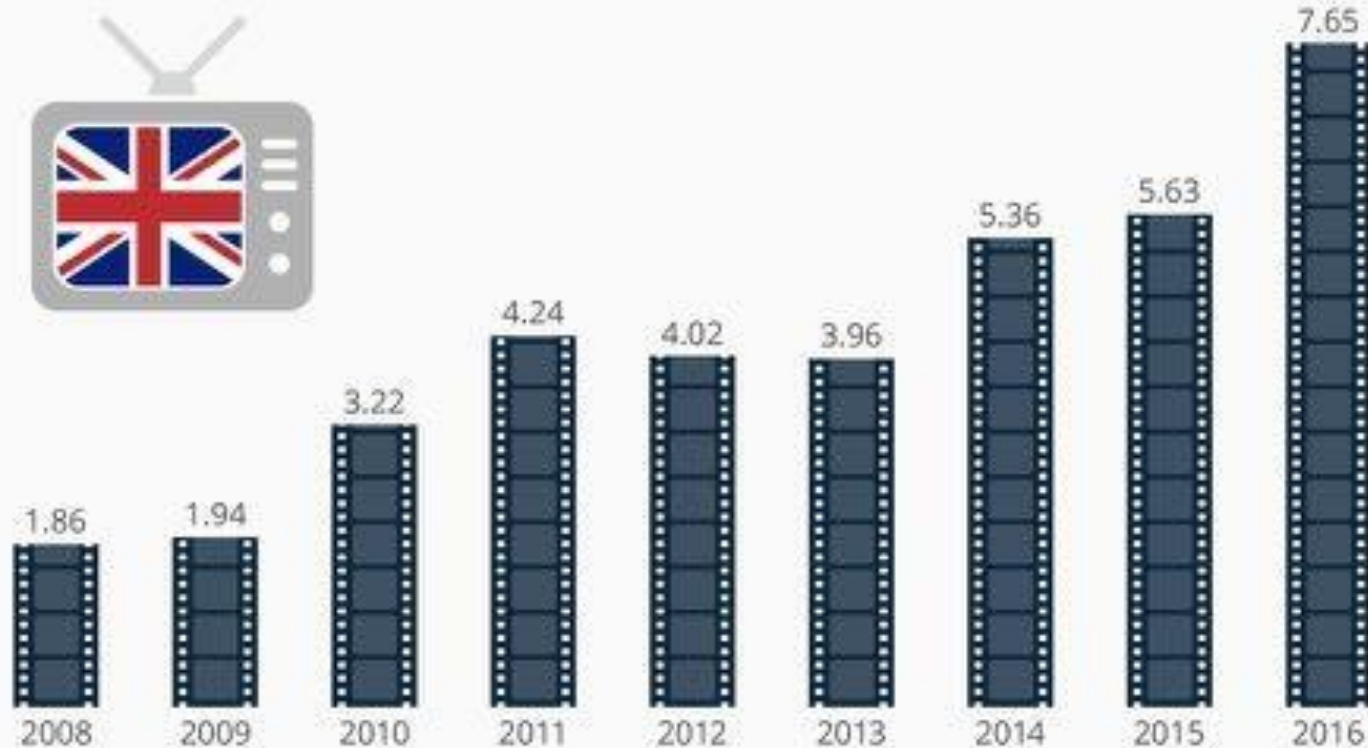
www.thecreativeindustries.co.uk

Source: CIMA Institute, June 2019

Why is this degree relevant to today's industry?

Film & TV's growing contribution to the UK economy

Gross value added of film, video and television companies in the UK (in billion GBP)



Television

Netflix streaming wars fuel record UK film and TV production boom

Spending on high-end TV dramas by Netflix and Amazon eclipses BBC, Sky and ITV



@StatistaCharts

Source: Office for National Statistics

statista

Why is this degree relevant to today's industry?

Indeed, while skills shortages are most pronounced in craft and technical roles, there are few learners undertaking study in these areas.

BFI – Future Films Skills Action Plan 2017

We are close to breaking point with the massive demand placed on sourcing crew and crafts people.

» Elizabeth Karlsen, producer Number 9 films



It's inevitable at a time of booming inward investment in film and in television that the number of available and qualified crew will come under pressure. To stop this becoming a crisis ... we need an expanded workforce with no reduction in quality
 Marc Samuelson, Executive Producer

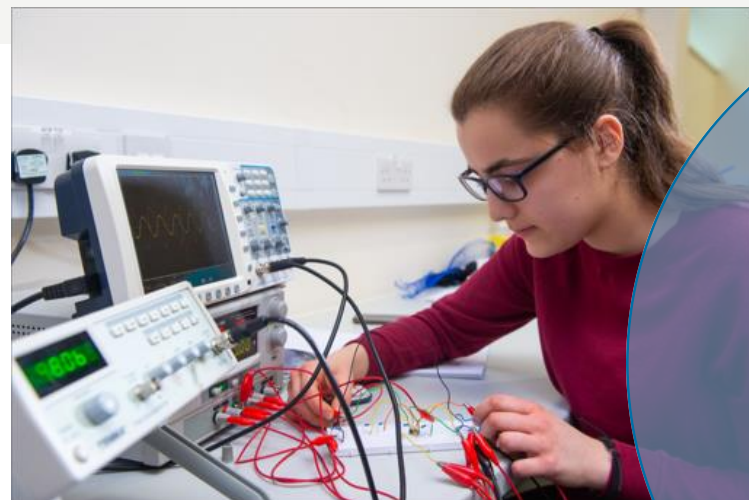
The Observer Cannes 2019

• This article is more than 8 months old

Serious shortage of people doing 'proper' jobs on film sets

IABM –
 International Association of Broadcast
 Manufacturers want graduates with technical skills.

An overview



Engineering

Student

Operational
&
Practical

Artistic/creative



The Tonmeister degree

- » Based on the “Tonmeister” degree in music and sound recording
 - First intake in 1970, with around 650 graduates
 - Excellent reputation in the audio industry
 - Graduates work in all areas of the audio industry
 - Approx. 100 major awards for graduates including Oscars, BAFTAs, MPSEs, Emmys, Grammys.

- » Film and Video Production Technology is based on this degree

- First intake 2016



Course structure

Theory AND practice
Technical and artistic
Film and broadcast
Picture and sound

First Year

First year concentrates on fundamental engineering principles:

Video signals, cameras, audio, computer systems, electronics.

Along with **screenplays, storyboards, editing and practical use of cameras and lighting.**

Second Year

Second year has practical modules in **cinematography, TV studios and film sound.**

More technical modules in **broadcast engineering** and **computer imaging**, and a mini project module to make various filmed projects.

Placement Year after second year

Final Year

Final year has a choice of 2 optional modules in **screenwriting** or **artistic collaboration**, plus two large project modules: technical and creative.

Coursework examples – student work



Year 2, Semester 1:
Cinematography



Examples of student work

» No change (final year trailer)

» <https://vimeo.com/390195396>

» The Essay (second year)

» <https://youtu.be/33wafIZh7IY>

» The Fort (second year)

» https://youtu.be/rp3_32ivqGU

» Misty (second year)

» <https://youtu.be/koh15c7tqOQ>

Professional Training placement

- » The University of Surrey has been a pioneer in this area
 - Jobs are usually paid and last the whole year
 - You can find your own placement if you want to
 - We actively develop relationships with companies.

FVPT student at ITN

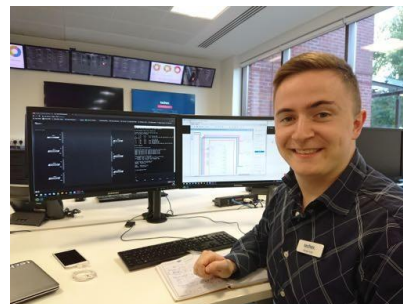


Professional Training placement

- » Our professional training partners
 - Nearly all are paid, full-year jobs.



Squash TV – Production and engineering assistant



TRO – Junior Video Producer

Arena TV – Technical assistant



One dash 22 - Singapore



Video Europe - Engineer



Professional Training placement

- » Our professional training partners
 - New for this year.



CTV OB – Technical assistant



Dolby – student
support engineer





“The BSc (Hons) Film and Video Production Technology course offered by the University of Surrey provides strong knowledge in fundamental video and audio theories. Knowledge that is highly valuable to businesses operating in the AV sector. It has been a pleasure having a student from the course working at AVMI, on a placement year that has far exceeded our expectations. I’m looking forward to many more success stories.”



Matthew Roberts, Technical Design Manager, AVMI

Pastoral care

- » All students are assigned a personal tutor
 - Support network
 - MySurrey Hive - student services centre
 - Student life mentoring
 - Wellbeing centre.

- » Students are also put into inter-year mentoring groups
 - First years assist other years with filming assignments
 - Social events.



Teaching

» Award-winning teaching staff with extensive experience in industry



» Small intake – high quality student-centred learning.

Teaching staff



Alan Haigh
Senior Teaching Fellow
Background:
Tonmeister degree
CTS studios, Britannia
Row Studios, freelance.



Susan Pratt:
Senior Teaching
Background:
Electronic Engineering
BBC engineering training,
vision mixing and directing,
freelance.



Dr. Femi Adeyemi-Ejeye:
Lecturer
Background:
Computer Science
Research: live
4K streaming, video
over IP.



Dr Andrew Gilbert
Senior Lecturer
Background:
Electronic Engineering
Research:
computer vision and
machine learning, real
time video processing.

Associate tutors



Tony Orme
Broadcast Engineer
Background:
BBC, TVam,
GMTV, MTV, TSL,
IMD, Vice Chair,
Royal TV Society,
Thames Valley.



James Martin
Cinematographer
Films:
Payback Season,
The Secret Life
of Butterflies,
Dance with the Devil: the
Cozy Powell Story.



John Warburton
Producer
Background:
Tonmeister degree,
radio news
broadcaster, classical music
producer, sound
art gallery artist,
computer coder,
composer, pianist,
TV producer/editor
(Keith Allen, Victor Lewis
Smith).



Kevin Joyce
Director

Background:
BBC news,
camera operator,
freelance director.

Teaching – visiting lectures

- » This year's visiting lectures have featured:
- » **Martin Humphries** of Grass Valley, on Broadcast engineering and IP systems
- » **Katy Noland** of BBC R&D, on UHD and HDR
- » BAFTA winning Dubbing Mixer, **Howard Bargroff**
- » Award winning Sound Designer, **Jon Olive**
- » TV sound engineer, **Emily Merron**
- » Colour grader, **Jamie Dickinson**.



Film and video production technology

» What you will gain from the course

- Technical knowledge and understanding
- Practical experience
- Creative/artistic improvement
- Experience of working in the industry
- Contacts in the industry.





Facilities

Professional industry-standard equipment across TV and film, picture and sound.



“The University of Surrey’s Film and Video Production Technology degree programme is truly outstanding because of its emphasis on industry-standard tools and equipment. Students will have a big advantage when they graduate, because of their deep training in the broadcast engineering and postproduction, approaches that are used in television studios everywhere.” .



Robin Brown, Product Manager, Autoscript

TV facilities



- TV studio with top of the range Sony MVS8000G vision mixer.
- 4 HD cameras with Vinten tripods
- Fibre links to performance venues
- Broadcast quality portable cameras (Sony, JVC and Panasonic)
- Audio and electronics laboratory for practical work
- 24-hour edit rooms and computer labs with PCs and Apple Macs with industry standard software (Adobe Creative Cloud, Avid Media composer and Pro Tools HD, Da Vinci Resolve, MAYA, Nuke).

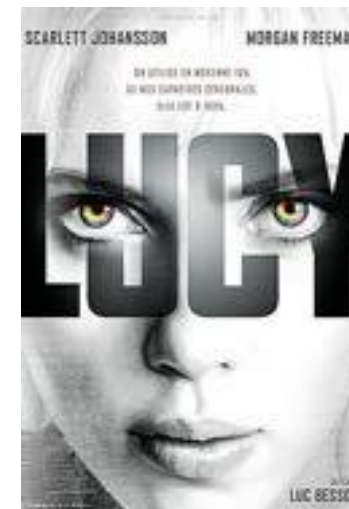
Digital cinematography facilities

SONY

Sony PMW-F55



- Sony F-55 and F5 4K 35mm sensor digital cinematography cameras
- Selection of prime and zoom lenses
- Sound devices sound recorders
- Lighting by ARRI and Dedolight
- Sony field monitors
- Full range of accessories.



Collaborations

Collaborations are important for networking, and help you later in your career.

Our collaborations include:

The Guilford School of Acting (GSA)

On campus and part of the University of Surrey



The Tonmeister course

Record all kinds of music and videos with internal and external artists.



Stag TV

Award winning student television Many current students are members.



Stag TV productions

» Strictly Come Surrey

» <https://youtu.be/vuuMkYVJPxo>

» Highlights

» <https://youtu.be/vbx6AyFQOOY>

» Live from studio 1

» <https://youtu.be/SZmK3SaSFso>



Film and video production technology

Femi Adeyemi-Ejeye
Femi.ae@surrey.ac.uk

Alan Haigh, Programme Director
a.haigh@surrey.ac.uk

 @FilmEng_Surrey

 @FilmEng_Surrey



UNIVERSITY OF
SURREY