

Timeline for Tohoku University as Designated National University Acquisition & Development of Human Resources ~ Characteristic Degree Programs

	FY2017~2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028~2030
① Promoting the Deg	gree Program Cluster and the Adva	anced Graduate S	School based on i	nterdisciplinarity,	internationality,	and industry-acad	emia collaboration	on
	Promotion of Degree Programs and establishment of the Organization for Advanced Graduate Schools	Organ	ization of the Toho	ku University Adva	inced Graduate Sch	nool based on reques	sted deregulations	
Programs and	Development International Joint Graduate Programs (More than 10 programs until FY2021)	Further developr	nent and implemen	ntation of Degree Pro	ograms			
organization of the Tohoku University Advanced Graduate School		Four times the nuat International Jo	umber of graduates oint Graduate Program	ms in the 4th mid-term	n compared to the 3rd r	mid-term ———— orld-leading Innovativ		
	Number of Degree Programs 15 Achiev ahead of	ved	ent and implement	atton of the Decien	Il I Togram for 1101		ree Programs: 25 ———	—————————————————————————————————————
② Acquisition of tale	ented students by improving the ap	ppeal of Graduate	Schools					
Increasing international	Testing international standardization of entrance exams at graduate schools							
accessibility	Ratio of international Ph.D. Students: 26% Achieved ahead of ti					Ratio of international	l Ph.D. Students: 35%	→
Creation of a new	New grant-type scholarships for all eligible Ph.D. students Achieved signi ahead of ti	•	Continuous suppo	ort of grant-type sch	olarships for all eli-	igible Ph.D. students	See Governance	
(Expand support for students to	Construction of the University House Aobayama (Initial plan) Percentage of Ph.D. students		Continuo	(1.8M JPY annua		ty House Aobayama		-
living expenses)	receiving financial support: 80%				Percentage of P	Ph.D. students receivin		
(3) Attracting brilliant	t young researchers from all over t		positions for young	researchers at the Or	Organization for Adv	vanced Studies		inforcement Capabilities
Educating brilliant young researchers			Improved resear	rch environment for	young researchers			
						ticipating in internation ompared to the 3rd mid		
Remarks (Objectives, etc.)	 FY2021: Expand number of Degree FY2021: Expand ratio of foreign P FY2021: Financial support for 80% FY2030: 200 positions for young r FY2018: 1720 rooms for students and students are perfectly positions. 	Ph.D. students to 26 % of Ph.D. students researchers	6%, FY2030: Expanses, FY2030: Financia	and ratio of foreign Pial support for all Ph.	Ph.D. students to 35°	.%		



Timeline for Tohoku University as Designated National University Reinforce Research Capabilities ~ Establishing the Core Research Cluster

	FY2017~2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028~2030		
1 Installment of a thr	ee-layered "Research Innovation	System" under th	ne Organization f	or Advanced Stud	lies					
Establishing the Core Research Cluster for top level research (First Layer)	Promote research, internationalization and commercialization at the Core Research Cluster (See also ②)	Further promotion of research etc. at the Core Research Cluster								
	Expansion of positions for young researchers at the Frontier Research Institute for Interdisciplinary Sciences, the Division for Research in New Disciplines etc.		At least 1 additional center at the Core Research Cluster during the 4th mid-term ──────── Establish university wide brain circulation system for young researchers							
D 1' 1'	International Research Cluster in 9 priority areas with the International Joint Graduate School									
Promote interdisciplinary research across silos of	Support interdisciplinary research projects e.g.		Est	tablish & advance In	nterdisciplinary Re	search Alliance				
specialized fields (Second Layer)	Institute for Disaster Reconstruction and Regeneration Research, Research with Social Impact									
② Creation of the Cor	e Research Cluster with four pilla	ars: "Materials Sc	cience", "Spintron	nics", "Next Gene	eration Medicine'	' and "Disaster Sc	cience"			
	Material Science: Establish "Mathematical Science – Search for Micro Materials – Creation of Macro Materials" research flow		Lead deve	lopment of infrastr	uctural materials, c	contribute to global	society			
Promote research, internationalization &	Spintronics: Establish world leading research in "Spin-Centered Science"		Lead social &	& technological pro	gress via academic	research				
commercialization at the Core Research Cluster X See remarks for	Next-Generation Medicine: Establish foundation for personalize medicine & prophylaxis		P	romote world leading	ng Next-Generation	n Medicine				
objectives	Disaster Science: Establish "Disaster Science" as new academic discipline		Contribute to in	nternational disaster	risk reduction and	specialized HR edu	ucation			
③ Fostering young res Educating brilliant young researchers	searchers at the Organization for			dent's leadership researchers at the O	- /	vanced Studies		Acquisition & pment of HR		
			Improved resear	ch environment for	young researchers					
						icipating in internation mpared to the 3rd mid				
Remarks (Objectives, etc.)	by the end of the 4th mid-term compared to the 3rd mid-term ———— • FY2030: 200 positions for young researchers • FY2030: [Material Science, Spintronics, Next Generation Medicine & Disaster Science] 50% internationally co-authored publications & 20% foreign researchers • FY2021: [Next Generation Medicine] 150,000 genome analysis & 70,000 omics analysis, construction & release of reference panel, provide nation wide access to the Tohoku University Clinical Biobank • FY2027: More than 10 cases of practical R&D for reconstruction, regeneration and disaster risk reduction									



Timeline for Tohoku University as Designated National University Collaboration with Society ~ R&D Research Centers Leading Global Innovation

	FY2017~2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028~2030
1 Accelerating innov	ations at Tohoku University via r	einforcing industr	ry-academia coop	peration				
Reinforcing functionality for industry cooperation	Head Office for Open Innovation Strategy		Establish indu	istry liaisons, reeval	luate faculty assess:	ment, expand cross	-appointments	
Intellectual property management	Expand TLO		Promote function	onalities for IP mana	agement from creat	ion to commercializ	zation	
Large-scaled industry-	Advance strategic "C	Organization-to-Org	ganization" joint re	search, promote co-	-creation via match	ng needs of industr	y with seeds from t	niversity
academia partnerships				umbers of co-creation e 4th mid-term compa			s etc. →	
Accelerate creation of		Actively utiliz	e gap funds, enhan	ce investment pipel	ine via collaboratio	n with venture capi	tals	
venture capitals & entrepreneurship	EDGE-NEXT & entrepreneur centers Intro	oduce & promote pr	rograms for the con	nmunication of indu	ustry know-how inc	luding design of bu	siness plans & inve	stments
education		50% increased numb	ers of Tohoku Univer	rsity Ventures by the e	end of the 4th mid-ter	m compared to the 3rd	l mid-term \rightarrow	
② Advancements of c	ollaboration with the industry - th	ne new extension	of the Aobayama	campus				
Under-One-Roof Industry Collaboration Hub (Cooperative Research Square) Large-scaled industry- academia collaboration centers at the Science Park Zone (extension of the Aobayama campus)	Establishment of centers	Adva	nce close industry-	academia collabora	tion via cooperativ	e organizations (e.g	. TLOs, VCs)	•
	Establish industry-academia innovation platform matching open & close strategy of industry		Attract corpo	orations, establish at	utonomous industry	-academia coopera	tion	
	`	tion & maintenance Synchrotron Radia		(Starting	operations of the N	lext Generation Syr	nchrotron Radiation	Facility)
3 Advancements of c	ollaboration with the industry - L	ife Science						
Advancements of collaboration with industry in Life Science	Strategic research management system Design	& promote speciali	zed facilities for th	e attraction of corpo	orations & relocation	on of remote laborat	ories within the uni	versity
	Advancement of open innovations for R&D of medical equipment at CRIETO, etc.		R&D eco	system for innovat	ion of medical equi	pment		
	Establish & promote open innovation model for pharmaceutical R&D	Promote open in	nnovation in pharm	aceutical R&D	Develop inte	rnational center for	innovative pharma	ceutical R&D
Remarks (Objectives, etc.)								



FY2017~2021

FY2022

FY2023

Timeline for Tohoku University as Designated National University Governance Reform ~ Reinforce functionality via progressive academic governance

FY2024

FY2025

FY2026

FY2027

FY2028~2030

① Struct	ural reinforce	ement of support for the President	(Provost, etc.), re	eform of institute	<u>s</u>						
Insta	all Provost	Establish support system for the President (e.g. Provost)			Reinforce s	support system for	the President				
2 Reinf	orcement of	finances via strategic advancement	it of industry-acad	demia innovation	& utilization of c	common space ar	d facilities				
Expansion of	Reinforce & expand functionality of the fund raising office		Continuou	us diversification of	endowment menu						
Elido	owments	Reinforce Shuyukai Alumni Network	Further	reinforcement of the	e Shuyukai Alumni	i Network					
	dustry	Expand private joint research funds		Expansi	ion of private joint re	research funds					
	4: C 1-	5B JPY income via private joint research funds Achieved ahead of time				Income from	n private joint research	funds: 16.5B JPY—			
Expand income from asset management		Establishment of the Asset Management Center Policies for effective utilization of assets		Acti	ions based on the po	olicies					
							om assets, endowment a term compared to the 3				
③ Utiliza	ation & priori	ritized investment of President's Bo	udget for swift pr	ogress							
	d funds for ent's Budget		Expand fun	ids for the President	t's Budget via prog	ressive financial str	trategies e.g. increase	ed overhead			
	Financial Ne support for	New grant-type scholarships Achieved signs or all eligible Ph.D. students ahead of t	•	Continuous supp	ort of grant-type sch	holarships for all el	ligible students		cquisition & nent of HR		
Support	Ph.D. students			Increase number of financial support beneficiaries (1.8M JPY annually) among Ph.D. students to 40% ───────							
via President's Budget	SYoung researchers		Inci	premental expansion	to 200 positions fo	or young researcher	'S				
	Support for CRC		Continu	uous support for the	4 centers at the Co	re Research Cluste	f				
Remarks (etc.)	(Objectives,	 FY2021: 5B JPY revenue from join FY2021: Financial support for 80% FY2030: 200 positions for young r 	% of Ph.D. students,								